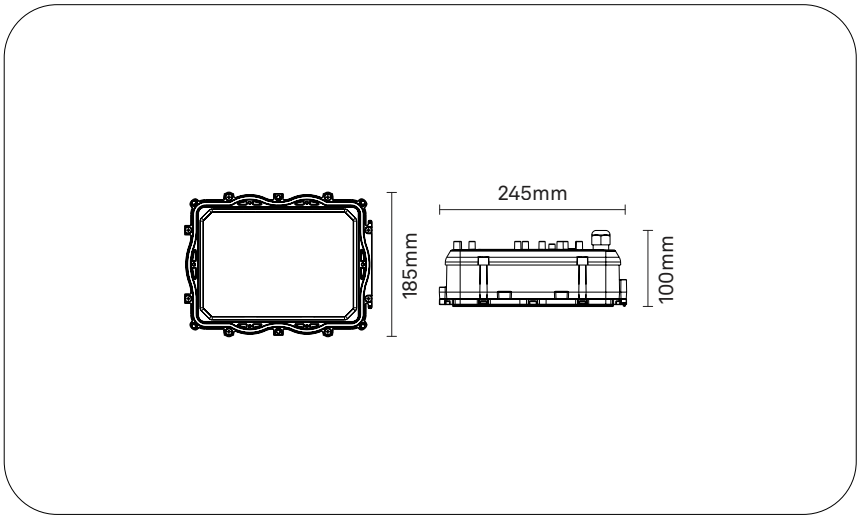
NERI

Project location:	Fixture type: Qty:
Project name:	Notes:

RNC21 | REFITTING KIT





CE IP66 IK09 Classe II

ORDERING INFORMATION / GUIDE

Example: **RNC21-N-D28-730-L025-ST-V1-F02-M2-CW0**

OPTIQUE	RA+K	LUMINOUS FLUX	SCREEN FINISH	POWER SUPPLY	DRIVER FUNCTION	ISO CLASS	FINISH
D28 Type I - Center road	**722** Ra70 2200 K	**L015** 1500 lm	**ST** Transparent	**V1** 220V-240V	**F27** ON/OFF+CLO	**M1** Class I	**CW0** White [RAL 9010] Matt
D36 Type II - Asymmetric	**727** Ra70 2700 K	**L025** 2500 lm	**SP** Prismatic		**F02** 1-10V+CLO	**M2** Class II	
D22 Type III - B	**730** Ra70 3000 K	**L035** 3500 lm			**F06** DALI+CLO		
D25 Type III - C	**740** Ra70 4000 K	**L045** 4500 lm			**F10** D4i+ZHAGA		
D37 Type III - Asymmetric	**8T2** Ra80 TW 2200-4000 K	**L060** 6000 lm			**F04** Ampdim+CLO		
D24 Type IV - Forward throw		**L070** 7000 lm			**F14** NVL6H+CLO		
D38 Type IV - C		**L075** 7500 lm			**F50** NVLK+CLO		
D30 Type V - Rotosymmetric		**L090** 9000 lm					

Generated code: **RNC21 - N** - _ _ _ - _ _ _ - _ _ _ _ - _ _ - _ _ - _ _ _ - _ _ - _ _ _

CONFIGURATION NOTES
The product features shown in this datasheet cannot always be freely combined.
To verify the configurations actually available and define the corresponding product code, please use the configurator available on our website.

ON REQUEST
Non-standard variants and configurations available upon request. Please contact Neri for further information.

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SOURCE

High-power LED matrix.

Energy-efficiency class: C, D, E
LED forward current: 176-816 mA
Power rating: 7.5-55.3 W
Nominal Flux: 1500-9000 lm
Nominal CCT (Colour temperature): 2200 K, 2700 K, 3000 K, 4000 K, TW 2200-4000 K
Color Rendering Index (Ra): 70, 80
Standard Deviation Colour Matching: ≤5
ANSI/IES TM-30: Rf = 73-78 Rg = 91-96
Rated lifetime: L90B10 100000 h @ Tq = 25 °C

LIGHTING CHARACTERISTICS

Modular 2x2 refractive lenses in PMMA.

Optique: Type I - Center road, Type II - Asymmetric, Type III - B, Type III - C, Type III - Asymmetric, Type IV - Forward throw, Type IV - C, Type V - Rotosymmetric
Optical efficiency: LOR = 100% ULOR = 0%
LED quantity: 16, 24
Cutoff Angle: Cutoff, Semi Cutoff C = 0, 310° γ = 46, 70°
Luminous flux: 1500-9000 lm
Luminous efficacy: 110-171 lm/W
Luminous intensity class: G*2, G*3, G*4, G*6
IPEA: Road A4+ / A12+, Urban A4+ / A12+, Ped A3+ / A11+, Park A3+ / A11+, Art A7+ / A12+
BUG: B=0-3, U=0, G=0-2
Photobiological safety: RG1 - Low risk

ELECTRICAL CHARACTERISTICS

Compliant with standards EN 60598-1; EN 60598-2-3; EN 62031; EN 55015 EMC; EN 61547 EMC; EN 61000-3-2/3; IEC/TR 62778. ENEC safety mark.

Luminaire power: 9.6-61.4 W
Power supply: 220V-240V~ 50/60Hz
Power factor: ≥0.99
Insulation class: Class I, Class II
Control type - driver: ON/OFF+CLO, 1-10V+CLO, DALI+CLO, D4i+ZHAGA, Ampdim+CLO, NVL6H+CLO, NVLK+CLO
Safe Flicker: PstLM=<1 e SVM=<0,4 (IEC TR 61547-1 e IEC TR 63158)
Ambient temperature: -35 °C / +50 °C
Driver included: Yes
Cable type: H05RN-F 2X1mm², H05RN-F 3G1mm², H05RN-F 4X1mm², H05RN-F 5G1mm²
Cable length: 0.45 m, 0.57 m
Surge protection: 10kV CM - 10kV DM, 10kV CM - 6kV DM

MECHANICAL CHARACTERISTICS

Structure made of die-cast aluminium (UNI EN 1706) with an integrated heat sink and extra-clear or prismatic toughened glass protective screen with IK09 impact resistance (EN 62262). Polycarbonate frame for mounting the kit to the plate and provision for auxiliary devices compliant with Zhaga Book 18. Components in PA6 polyamide and stainless steel screws.

Length: 245 mm
Width: 185 mm
Height: 100 mm
Weight: 2 kg
Protection degree: IP66
Mechanical resistance: IK09
Finish: White [RAL 9010] Matt

INSTALLATION

The refitting module is designed for fastening on a flat plate with thickness 1.5 mm.
For installation on third-party lanterns, please contact the company.

WARNINGS

Luminaire designed for disposal/recycling at end-of-life.
Replaceable (LED only) light source by a professional.
Replaceable control gear by a professional.
Protection of surfaces: please refer to the specification on painting procedures of the materials.

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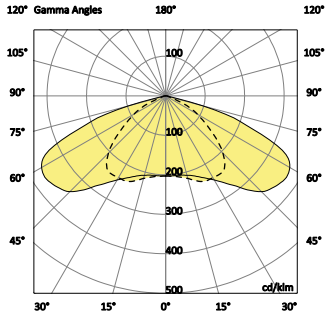
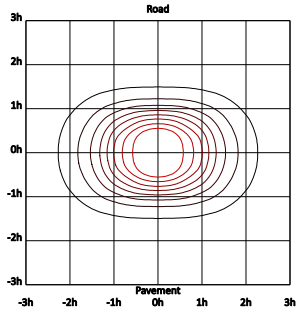
Optic: Type I - Center road

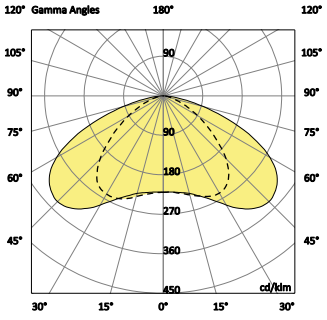
Screen finish: Transparent

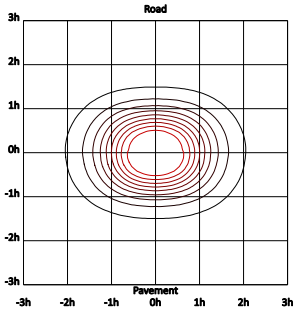




Optic: Type I - Center road

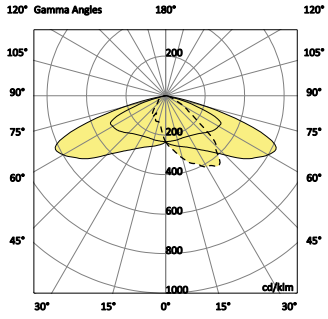
Screen finish: Prismatic

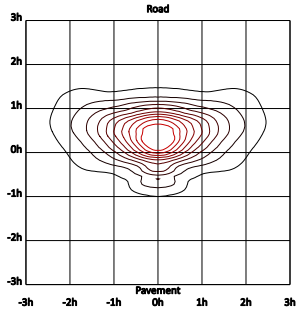




Optic: Type II - Asymmetric

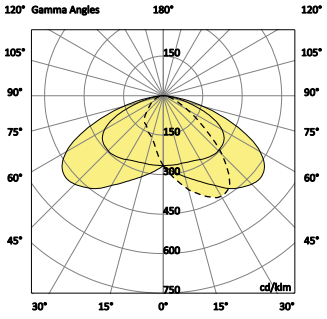
Screen finish: Transparent

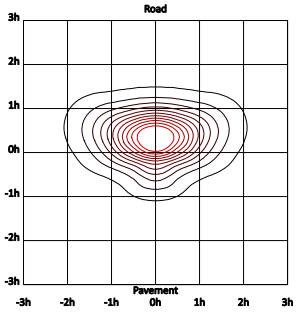




Optic: Type II - Asymmetric

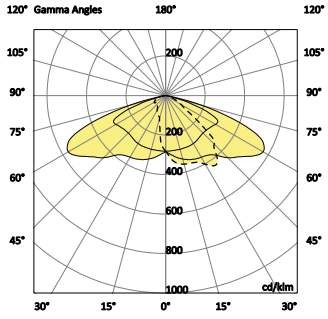
Screen finish: Prismatic

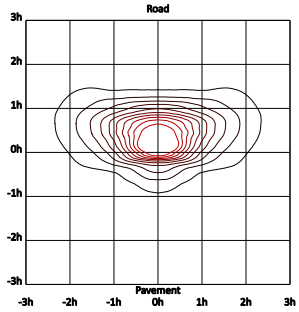




Optic: Type III - B

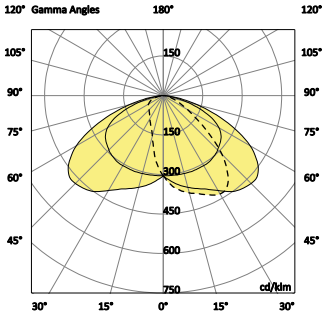
Screen finish: Transparent

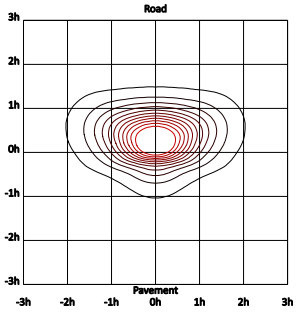




Optic: Type III - B

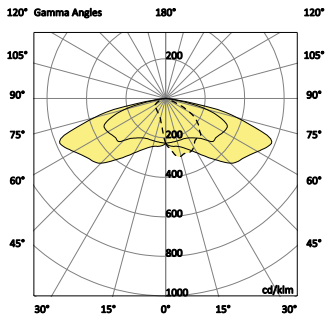
Screen finish: Prismatic

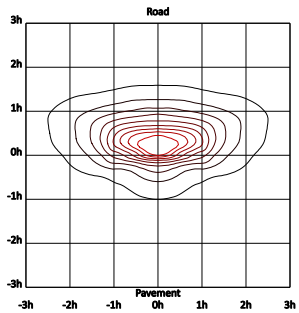




Optic: Type III - C

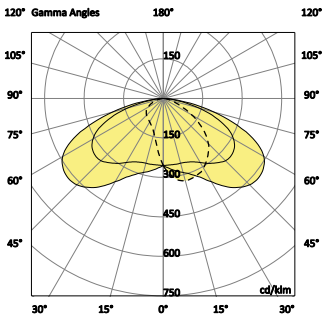
Screen finish: Transparent

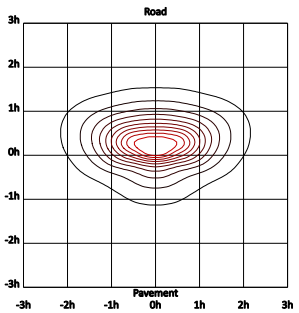




Optic: Type III - C

Screen finish: Prismatic





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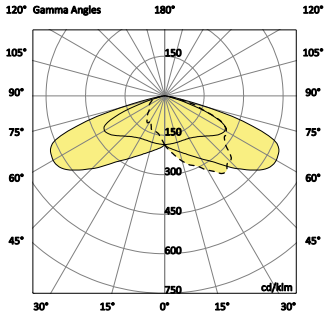
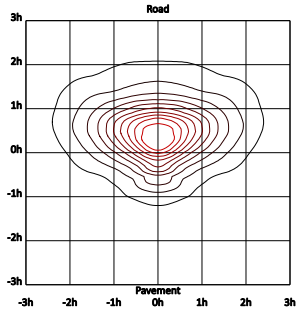
Optic: Type III - Asymmetric

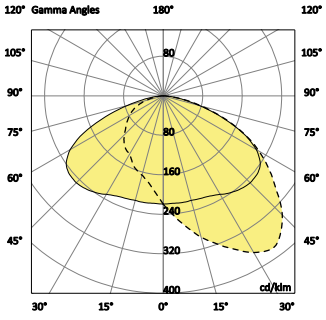
Screen finish: Transparent

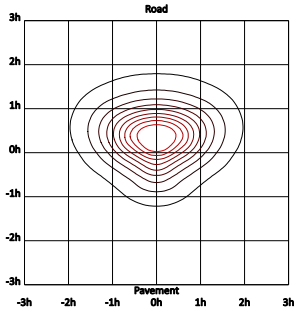




Optic: Type III - Asymmetric

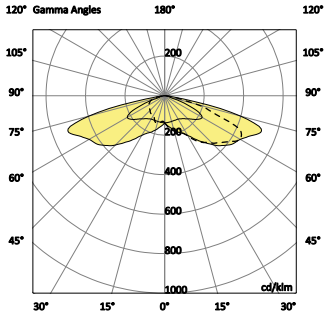
Screen finish: Prismatic

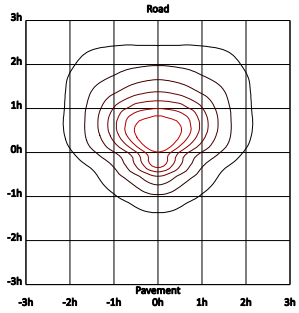




Optic: Type IV - Forward throw

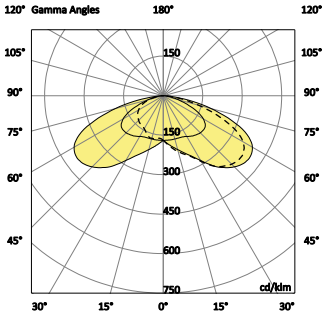
Screen finish: Transparent

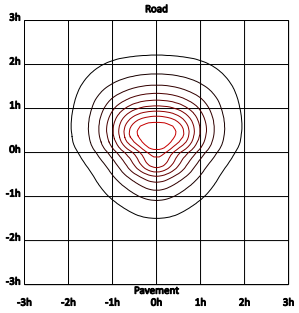




Optic: Type IV - Forward throw

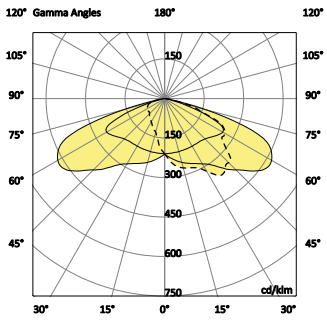
Screen finish: Prismatic

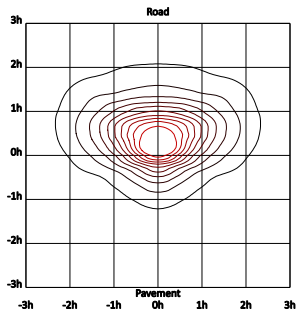




Optic: Type IV - C

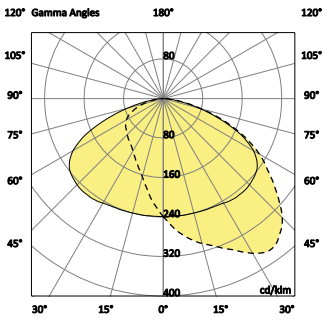
Screen finish: Transparent

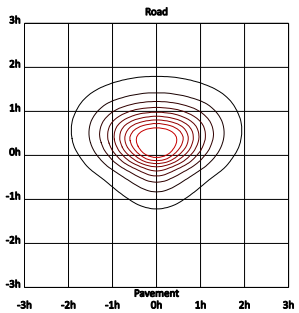




Optic: Type IV - C

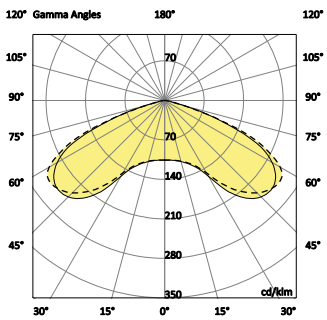
Screen finish: Prismatic

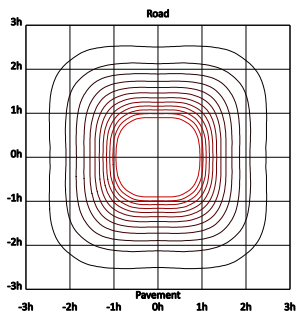




Optic: Type V - Rotosymmetric

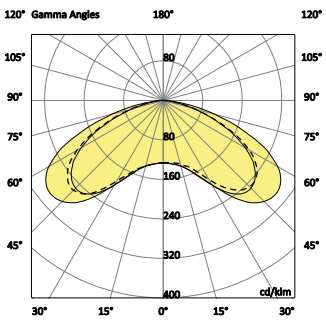
Screen finish: Transparent

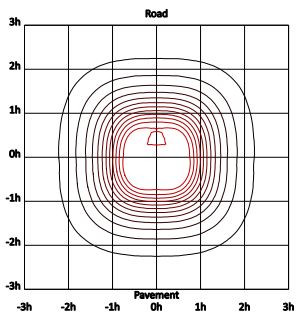




Optic: Type V - Rotosymmetric

Screen finish: Prismatic





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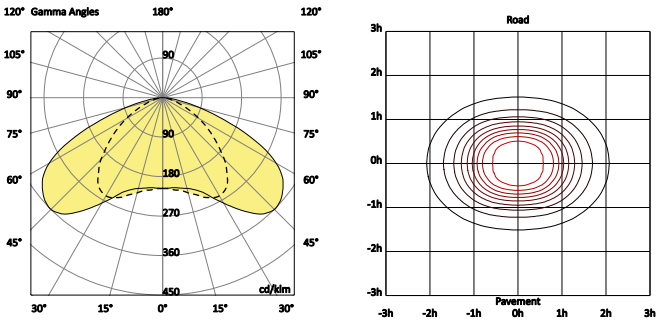
TW 2200-4000 K

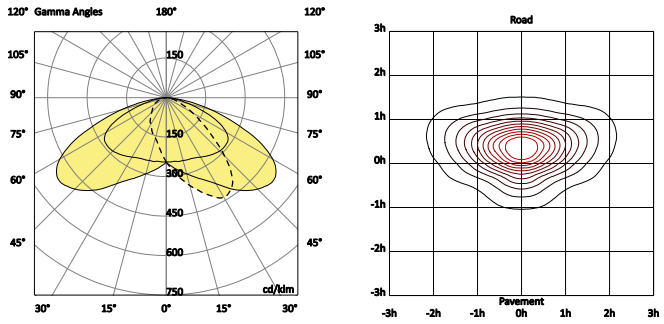
Optic: Type I - Center road

Screen finish: Prismatic



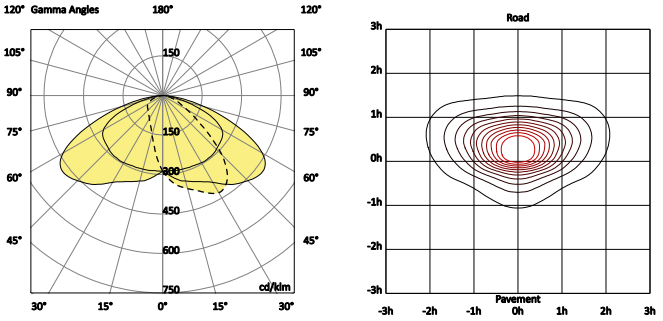
Optic: Type II - Asymmetric

Screen finish: Prismatic



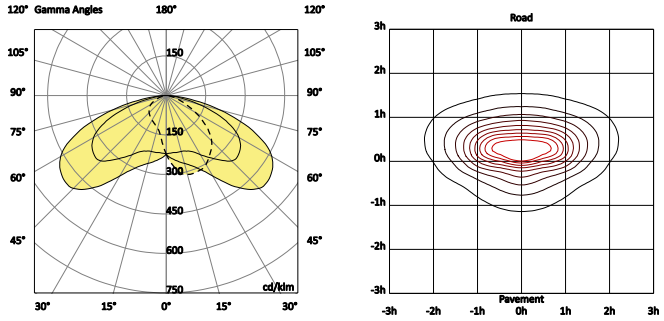
Optic: Type III - B

Screen finish: Prismatic



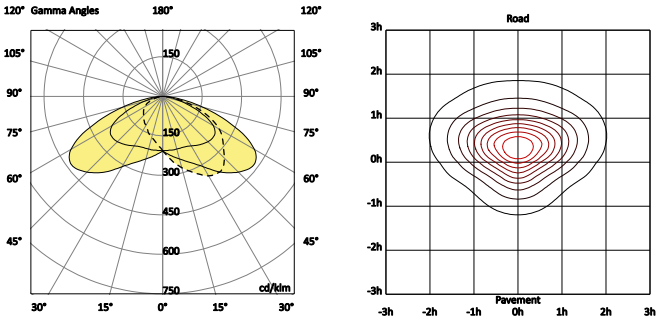
Optic: Type III - C

Screen finish: Prismatic



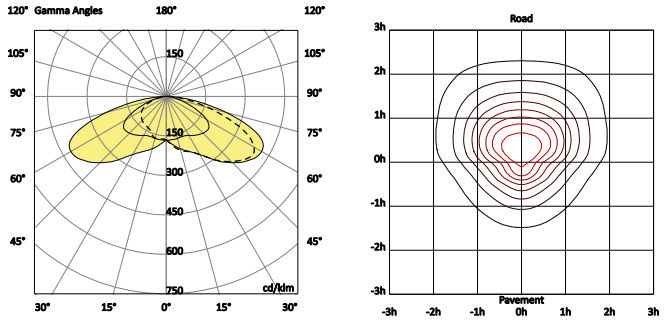
Optic: Type III - Asymmetric

Screen finish: Prismatic



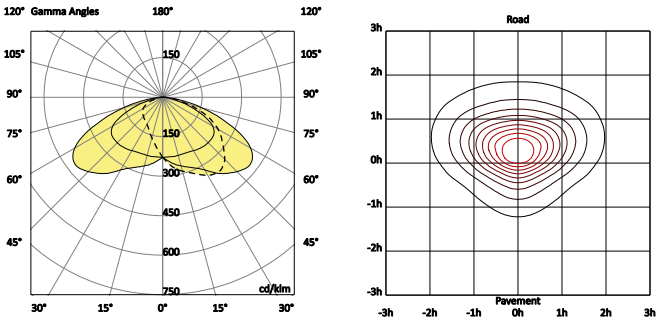
Optic: Type IV - Forward throw

Screen finish: Prismatic



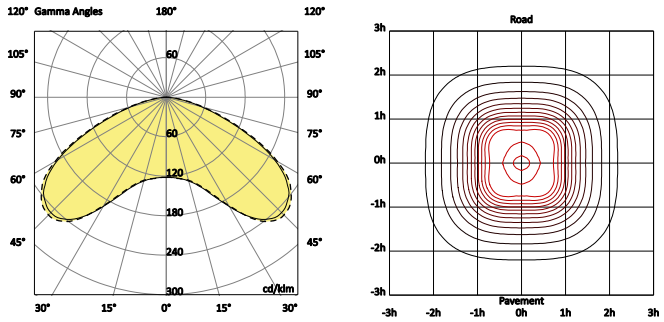
Optic: Type IV - C

Screen finish: Prismatic



Optic: Type V - Rotosymmetric

Screen finish: Prismatic



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Optic: Type I - Center road

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
1500 lm	2200 K	11.1	135	16	210	8.9	169	A7+	A8+	A7+	A7+	A11+
1500 lm	2700 K	10.1	149	16	190	8	188	A9+	A10+	A8+	A8+	A12+
1500 lm	3000 K	9.9	152	16	184	7.8	192	A9+	A10+	A9+	A9+	A12+
1500 lm	4000 K	9.6	156	16	176	7.5	200	A10+	A11+	A9+	A9+	A12+
2500 lm	2200 K	18	139	16	356	15.4	162	A8+	A8+	A7+	A7+	A12+
2500 lm	2700 K	16.3	153	16	320	13.8	181	A10+	A10+	A9+	A9+	A12+
2500 lm	3000 K	15.9	157	16	312	13.4	187	A10+	A11+	A9+	A9+	A12+
2500 lm	4000 K	15.3	163	16	298	12.8	195	A11+	A12+	A10+	A10+	A12+
3500 lm	2200 K	25.2	139	24	330	21.4	164	A8+	A8+	A7+	A7+	A12+
3500 lm	2700 K	23	152	16	458	20	175	A9+	A10+	A9+	A9+	A12+
3500 lm	3000 K	22.3	157	16	444	19.4	180	A10+	A11+	A9+	A9+	A12+
3500 lm	4000 K	21.3	164	16	424	18.5	189	A11+	A12+	A10+	A10+	A12+
4500 lm	2200 K	32	141	24	432	28.3	159	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.3	149	16	600	26.6	169	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.5	153	16	582	25.8	174	A9+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.2	160	16	556	24.5	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.7	134	24	588	39.1	153	A7+	A8+	A6+	A6+	A11+
6000 lm	2700 K	39	154	24	528	34.9	172	A10+	A10+	A9+	A9+	A12+
6000 lm	3000 K	37.9	158	24	514	33.9	177	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	36.1	166	24	490	32.2	186	A11+	A12+	A11+	A11+	A12+
7000 lm	2700 K	47.3	148	24	624	41.6	168	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.5	152	24	654	43.7	172	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	47.3	159	24	622	41.6	180	A10+	A11+	A10+	A10+	A12+
9000 lm	2700 K	57.4	157	24	762	51.4	175	A10+	A11+	A9+	A9+	A12+
9000 lm	3000 K	55.9	161	24	742	50	180	A11+	A12+	A10+	A10+	A12+
9000 lm	4000 K	52.6	171	24	698	46.8	192	A12+	A12+	A11+	A11+	A12+

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Optic: Type I - Center road

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	11.8	127	16	224	9.5	158	A6+	A7+	A5+	A5+	A10+
1500 lm	2700 K	10.8	139	16	202	8.6	174	A8+	A8+	A7+	A7+	A12+
1500 lm	3000 K	10.5	143	16	196	8.3	181	A8+	A9+	A8+	A8+	A12+
1500 lm	4000 K	10.1	149	16	188	8	188	A9+	A10+	A8+	A8+	A12+
2500 lm	2200 K	19.2	130	16	380	16.5	152	A6+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.4	144	16	342	14.8	169	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	332	14.4	174	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.2	154	16	318	13.7	182	A10+	A11+	A9+	A9+	A12+
3500 lm	2200 K	26.7	131	24	352	22.9	153	A6+	A7+	A6+	A6+	A10+
3500 lm	2700 K	25.2	139	16	488	21.4	164	A8+	A8+	A7+	A7+	A12+
3500 lm	3000 K	24.6	142	16	474	20.8	168	A8+	A9+	A7+	A7+	A12+
3500 lm	4000 K	23.6	148	16	452	19.8	177	A9+	A10+	A8+	A8+	A12+
4500 lm	2200 K	34.1	132	24	460	30.3	149	A7+	A7+	A6+	A6+	A10+
4500 lm	2700 K	32.4	139	16	642	28.6	157	A8+	A8+	A7+	A7+	A12+
4500 lm	3000 K	31.4	143	16	624	27.7	162	A8+	A9+	A8+	A8+	A12+
4500 lm	4000 K	30	150	16	594	26.3	171	A9+	A10+	A8+	A8+	A12+
6000 lm	2200 K	47.7	126	24	628	42	143	A6+	A6+	A5+	A5+	A9+
6000 lm	2700 K	43	140	24	564	37.4	160	A8+	A8+	A7+	A7+	A12+
6000 lm	3000 K	41.9	143	24	548	36.3	165	A8+	A9+	A8+	A8+	A12+
6000 lm	4000 K	40	150	24	522	34.5	174	A9+	A10+	A8+	A8+	A12+
9000 lm	2700 K	61.4	147	24	816	55.3	163	A9+	A9+	A8+	A8+	A12+
9000 lm	3000 K	59.8	151	24	794	53.8	167	A9+	A10+	A9+	A9+	A12+
9000 lm	4000 K	56.3	160	24	746	50.3	179	A10+	A11+	A10+	A10+	A12+

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Optic: Type II - Asymmetric

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
1500 lm	2200 K	11.1	135	16	210	8.9	169	A7+	A8+	A7+	A7+	A11+
1500 lm	2700 K	10.1	149	16	190	8	188	A9+	A10+	A8+	A8+	A12+
1500 lm	3000 K	9.9	152	16	184	7.8	192	A9+	A10+	A9+	A9+	A12+
1500 lm	4000 K	9.6	156	16	176	7.5	200	A10+	A11+	A9+	A9+	A12+
2500 lm	2200 K	18	139	16	356	15.4	162	A8+	A8+	A7+	A7+	A12+
2500 lm	2700 K	16.3	153	16	320	13.8	181	A10+	A10+	A9+	A9+	A12+
2500 lm	3000 K	15.9	157	16	312	13.4	187	A10+	A11+	A9+	A9+	A12+
2500 lm	4000 K	15.3	163	16	298	12.8	195	A11+	A12+	A10+	A10+	A12+
3500 lm	2200 K	25.2	139	24	330	21.4	164	A8+	A8+	A7+	A7+	A12+
3500 lm	2700 K	23	152	16	458	20	175	A9+	A10+	A9+	A9+	A12+
3500 lm	3000 K	22.3	157	16	444	19.4	180	A10+	A11+	A9+	A9+	A12+
3500 lm	4000 K	21.3	164	16	424	18.5	189	A11+	A12+	A10+	A10+	A12+
4500 lm	2200 K	32	141	24	432	28.3	159	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.3	149	16	600	26.6	169	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.5	153	16	582	25.8	174	A9+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.2	160	16	556	24.5	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.7	134	24	588	39.1	153	A7+	A8+	A6+	A6+	A11+
6000 lm	2700 K	39	154	24	528	34.9	172	A10+	A10+	A9+	A9+	A12+
6000 lm	3000 K	37.9	158	24	514	33.9	177	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	36.1	166	24	490	32.2	186	A11+	A12+	A11+	A11+	A12+
7000 lm	2700 K	47.3	148	24	624	41.6	168	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.5	152	24	654	43.7	172	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	47.3	159	24	622	41.6	180	A10+	A11+	A10+	A10+	A12+
9000 lm	2700 K	57.4	157	24	762	51.4	175	A10+	A11+	A9+	A9+	A12+
9000 lm	3000 K	55.9	161	24	742	50	180	A11+	A12+	A10+	A10+	A12+
9000 lm	4000 K	52.6	171	24	698	46.8	192	A12+	A12+	A11+	A11+	A12+

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Optic: Type II - Asymmetric

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	11.8	127	16	224	9.5	158	A6+	A7+	A5+	A5+	A10+
1500 lm	2700 K	10.8	139	16	202	8.6	174	A8+	A8+	A7+	A7+	A12+
1500 lm	3000 K	10.5	143	16	196	8.3	181	A8+	A9+	A8+	A8+	A12+
1500 lm	4000 K	10.1	149	16	188	8	188	A9+	A10+	A8+	A8+	A12+
2500 lm	2200 K	19.2	130	16	380	16.5	152	A6+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.4	144	16	342	14.8	169	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	332	14.4	174	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.2	154	16	318	13.7	182	A10+	A11+	A9+	A9+	A12+
3500 lm	2200 K	26.7	131	24	352	22.9	153	A6+	A7+	A6+	A6+	A10+
3500 lm	2700 K	25.2	139	16	488	21.4	164	A8+	A8+	A7+	A7+	A12+
3500 lm	3000 K	24.6	142	16	474	20.8	168	A8+	A9+	A7+	A7+	A12+
3500 lm	4000 K	23.6	148	16	452	19.8	177	A9+	A10+	A8+	A8+	A12+
4500 lm	2200 K	34.1	132	24	460	30.3	149	A7+	A7+	A6+	A6+	A10+
4500 lm	2700 K	32.4	139	16	642	28.6	157	A8+	A8+	A7+	A7+	A12+
4500 lm	3000 K	31.4	143	16	624	27.7	162	A8+	A9+	A8+	A8+	A12+
4500 lm	4000 K	30	150	16	594	26.3	171	A9+	A10+	A8+	A8+	A12+
6000 lm	2200 K	47.7	126	24	628	42	143	A6+	A6+	A5+	A5+	A9+
6000 lm	2700 K	43	140	24	564	37.4	160	A8+	A8+	A7+	A7+	A12+
6000 lm	3000 K	41.9	143	24	548	36.3	165	A8+	A9+	A8+	A8+	A12+
6000 lm	4000 K	40	150	24	522	34.5	174	A9+	A10+	A8+	A8+	A12+
9000 lm	2700 K	61.4	147	24	816	55.3	163	A9+	A9+	A8+	A8+	A12+
9000 lm	3000 K	59.8	151	24	794	53.8	167	A9+	A10+	A9+	A9+	A12+
9000 lm	4000 K	56.3	160	24	746	50.3	179	A10+	A11+	A10+	A10+	A12+

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Optic: Type III - B

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
1500 lm	2200 K	11.1	135	16	210	8.9	169	A7+	A8+	A7+	A7+	A11+
1500 lm	2700 K	10.1	149	16	190	8	188	A9+	A10+	A8+	A8+	A12+
1500 lm	3000 K	9.9	152	16	184	7.8	192	A9+	A10+	A9+	A9+	A12+
1500 lm	4000 K	9.6	156	16	176	7.5	200	A10+	A11+	A9+	A9+	A12+
2500 lm	2200 K	18	139	16	356	15.4	162	A8+	A8+	A7+	A7+	A12+
2500 lm	2700 K	16.3	153	16	320	13.8	181	A10+	A10+	A9+	A9+	A12+
2500 lm	3000 K	15.9	157	16	312	13.4	187	A10+	A11+	A9+	A9+	A12+
2500 lm	4000 K	15.3	163	16	298	12.8	195	A11+	A12+	A10+	A10+	A12+
3500 lm	2200 K	25.2	139	24	330	21.4	164	A8+	A8+	A7+	A7+	A12+
3500 lm	2700 K	23	152	16	458	20	175	A9+	A10+	A9+	A9+	A12+
3500 lm	3000 K	22.3	157	16	444	19.4	180	A10+	A11+	A9+	A9+	A12+
3500 lm	4000 K	21.3	164	16	424	18.5	189	A11+	A12+	A10+	A10+	A12+
4500 lm	2200 K	32	141	24	432	28.3	159	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.3	149	16	600	26.6	169	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.5	153	16	582	25.8	174	A9+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.2	160	16	556	24.5	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.7	134	24	588	39.1	153	A7+	A8+	A6+	A6+	A11+
6000 lm	2700 K	39	154	24	528	34.9	172	A10+	A10+	A9+	A9+	A12+
6000 lm	3000 K	37.9	158	24	514	33.9	177	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	36.1	166	24	490	32.2	186	A11+	A12+	A11+	A11+	A12+
7000 lm	2700 K	47.3	148	24	624	41.6	168	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.5	152	24	654	43.7	172	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	47.3	159	24	622	41.6	180	A10+	A11+	A10+	A10+	A12+
9000 lm	2700 K	57.4	157	24	762	51.4	175	A10+	A11+	A9+	A9+	A12+
9000 lm	3000 K	55.9	161	24	742	50	180	A11+	A12+	A10+	A10+	A12+
9000 lm	4000 K	52.6	171	24	698	46.8	192	A12+	A12+	A11+	A11+	A12+

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Optic: Type III - B

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	11.8	127	16	224	9.5	158	A6+	A7+	A5+	A5+	A10+
1500 lm	2700 K	10.8	139	16	202	8.6	174	A8+	A8+	A7+	A7+	A12+
1500 lm	3000 K	10.5	143	16	196	8.3	181	A8+	A9+	A8+	A8+	A12+
1500 lm	4000 K	10.1	149	16	188	8	188	A9+	A10+	A8+	A8+	A12+
2500 lm	2200 K	19.2	130	16	380	16.5	152	A6+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.4	144	16	342	14.8	169	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	332	14.4	174	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.2	154	16	318	13.7	182	A10+	A11+	A9+	A9+	A12+
3500 lm	2200 K	26.7	131	24	352	22.9	153	A6+	A7+	A6+	A6+	A10+
3500 lm	2700 K	25.2	139	16	488	21.4	164	A8+	A8+	A7+	A7+	A12+
3500 lm	3000 K	24.6	142	16	474	20.8	168	A8+	A9+	A7+	A7+	A12+
3500 lm	4000 K	23.6	148	16	452	19.8	177	A9+	A10+	A8+	A8+	A12+
4500 lm	2200 K	34.1	132	24	460	30.3	149	A7+	A7+	A6+	A6+	A10+
4500 lm	2700 K	32.4	139	16	642	28.6	157	A8+	A8+	A7+	A7+	A12+
4500 lm	3000 K	31.4	143	16	624	27.7	162	A8+	A9+	A8+	A8+	A12+
4500 lm	4000 K	30	150	16	594	26.3	171	A9+	A10+	A8+	A8+	A12+
6000 lm	2200 K	47.7	126	24	628	42	143	A6+	A6+	A5+	A5+	A9+
6000 lm	2700 K	43	140	24	564	37.4	160	A8+	A8+	A7+	A7+	A12+
6000 lm	3000 K	41.9	143	24	548	36.3	165	A8+	A9+	A8+	A8+	A12+
6000 lm	4000 K	40	150	24	522	34.5	174	A9+	A10+	A8+	A8+	A12+
9000 lm	2700 K	61.4	147	24	816	55.3	163	A9+	A9+	A8+	A8+	A12+
9000 lm	3000 K	59.8	151	24	794	53.8	167	A9+	A10+	A9+	A9+	A12+
9000 lm	4000 K	56.3	160	24	746	50.3	179	A10+	A11+	A10+	A10+	A12+

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Optic: Type III - C

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
1500 lm	2200 K	11.1	135	16	210	8.9	169	A7+	A8+	A7+	A7+	A11+
1500 lm	2700 K	10.1	149	16	190	8	188	A9+	A10+	A8+	A8+	A12+
1500 lm	3000 K	9.9	152	16	184	7.8	192	A9+	A10+	A9+	A9+	A12+
1500 lm	4000 K	9.6	156	16	176	7.5	200	A10+	A11+	A9+	A9+	A12+
2500 lm	2200 K	18	139	16	356	15.4	162	A8+	A8+	A7+	A7+	A12+
2500 lm	2700 K	16.3	153	16	320	13.8	181	A10+	A10+	A9+	A9+	A12+
2500 lm	3000 K	15.9	157	16	312	13.4	187	A10+	A11+	A9+	A9+	A12+
2500 lm	4000 K	15.3	163	16	298	12.8	195	A11+	A12+	A10+	A10+	A12+
3500 lm	2200 K	25.2	139	24	330	21.4	164	A8+	A8+	A7+	A7+	A12+
3500 lm	2700 K	23	152	16	458	20	175	A9+	A10+	A9+	A9+	A12+
3500 lm	3000 K	22.3	157	16	444	19.4	180	A10+	A11+	A9+	A9+	A12+
3500 lm	4000 K	21.3	164	16	424	18.5	189	A11+	A12+	A10+	A10+	A12+
4500 lm	2200 K	32	141	24	432	28.3	159	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.3	149	16	600	26.6	169	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.5	153	16	582	25.8	174	A9+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.2	160	16	556	24.5	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.7	134	24	588	39.1	153	A7+	A8+	A6+	A6+	A11+
6000 lm	2700 K	39	154	24	528	34.9	172	A10+	A10+	A9+	A9+	A12+
6000 lm	3000 K	37.9	158	24	514	33.9	177	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	36.1	166	24	490	32.2	186	A11+	A12+	A11+	A11+	A12+
7000 lm	2700 K	47.3	148	24	624	41.6	168	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.5	152	24	654	43.7	172	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	47.3	159	24	622	41.6	180	A10+	A11+	A10+	A10+	A12+
9000 lm	2700 K	57.4	157	24	762	51.4	175	A10+	A11+	A9+	A9+	A12+
9000 lm	3000 K	55.9	161	24	742	50	180	A11+	A12+	A10+	A10+	A12+
9000 lm	4000 K	52.6	171	24	698	46.8	192	A12+	A12+	A11+	A11+	A12+

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Optic: Type III - C

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	11.8	127	16	224	9.5	158	A6+	A7+	A5+	A5+	A10+
1500 lm	2700 K	10.8	139	16	202	8.6	174	A8+	A8+	A7+	A7+	A12+
1500 lm	3000 K	10.5	143	16	196	8.3	181	A8+	A9+	A8+	A8+	A12+
1500 lm	4000 K	10.1	149	16	188	8	188	A9+	A10+	A8+	A8+	A12+
2500 lm	2200 K	19.2	130	16	380	16.5	152	A6+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.4	144	16	342	14.8	169	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	332	14.4	174	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.2	154	16	318	13.7	182	A10+	A11+	A9+	A9+	A12+
3500 lm	2200 K	26.7	131	24	352	22.9	153	A6+	A7+	A6+	A6+	A10+
3500 lm	2700 K	25.2	139	16	488	21.4	164	A8+	A8+	A7+	A7+	A12+
3500 lm	3000 K	24.6	142	16	474	20.8	168	A8+	A9+	A7+	A7+	A12+
3500 lm	4000 K	23.6	148	16	452	19.8	177	A9+	A10+	A8+	A8+	A12+
4500 lm	2200 K	34.1	132	24	460	30.3	149	A7+	A7+	A6+	A6+	A10+
4500 lm	2700 K	32.4	139	16	642	28.6	157	A8+	A8+	A7+	A7+	A12+
4500 lm	3000 K	31.4	143	16	624	27.7	162	A8+	A9+	A8+	A8+	A12+
4500 lm	4000 K	30	150	16	594	26.3	171	A9+	A10+	A8+	A8+	A12+
6000 lm	2200 K	47.7	126	24	628	42	143	A6+	A6+	A5+	A5+	A9+
6000 lm	2700 K	43	140	24	564	37.4	160	A8+	A8+	A7+	A7+	A12+
6000 lm	3000 K	41.9	143	24	548	36.3	165	A8+	A9+	A8+	A8+	A12+
6000 lm	4000 K	40	150	24	522	34.5	174	A9+	A10+	A8+	A8+	A12+
9000 lm	2700 K	61.4	147	24	816	55.3	163	A9+	A9+	A8+	A8+	A12+
9000 lm	3000 K	59.8	151	24	794	53.8	167	A9+	A10+	A9+	A9+	A12+
9000 lm	4000 K	56.3	160	24	746	50.3	179	A10+	A11+	A10+	A10+	A12+

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Optic: Type III - Asymmetric

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
1500 lm	2200 K	11.1	135	16	210	8.9	169	A7+	A8+	A7+	A7+	A11+
1500 lm	2700 K	10.1	149	16	190	8	188	A9+	A10+	A8+	A8+	A12+
1500 lm	3000 K	9.9	152	16	184	7.8	192	A9+	A10+	A9+	A9+	A12+
1500 lm	4000 K	9.6	156	16	176	7.5	200	A10+	A11+	A9+	A9+	A12+
2500 lm	2200 K	18	139	16	356	15.4	162	A8+	A8+	A7+	A7+	A12+
2500 lm	2700 K	16.3	153	16	320	13.8	181	A10+	A10+	A9+	A9+	A12+
2500 lm	3000 K	15.9	157	16	312	13.4	187	A10+	A11+	A9+	A9+	A12+
2500 lm	4000 K	15.3	163	16	298	12.8	195	A11+	A12+	A10+	A10+	A12+
3500 lm	2200 K	25.2	139	24	330	21.4	164	A8+	A8+	A7+	A7+	A12+
3500 lm	2700 K	23	152	16	458	20	175	A9+	A10+	A9+	A9+	A12+
3500 lm	3000 K	22.3	157	16	444	19.4	180	A10+	A11+	A9+	A9+	A12+
3500 lm	4000 K	21.3	164	16	424	18.5	189	A11+	A12+	A10+	A10+	A12+
4500 lm	2200 K	32	141	24	432	28.3	159	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.3	149	16	600	26.6	169	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.5	153	16	582	25.8	174	A9+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.2	160	16	556	24.5	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.7	134	24	588	39.1	153	A7+	A8+	A6+	A6+	A11+
6000 lm	2700 K	39	154	24	528	34.9	172	A10+	A10+	A9+	A9+	A12+
6000 lm	3000 K	37.9	158	24	514	33.9	177	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	36.1	166	24	490	32.2	186	A11+	A12+	A11+	A11+	A12+
7000 lm	2700 K	47.3	148	24	624	41.6	168	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.5	152	24	654	43.7	172	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	47.3	159	24	622	41.6	180	A10+	A11+	A10+	A10+	A12+
9000 lm	2700 K	57.4	157	24	762	51.4	175	A10+	A11+	A9+	A9+	A12+
9000 lm	3000 K	55.9	161	24	742	50	180	A11+	A12+	A10+	A10+	A12+
9000 lm	4000 K	52.6	171	24	698	46.8	192	A12+	A12+	A11+	A11+	A12+

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Optic: Type III - Asymmetric

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	11.8	127	16	224	9.5	158	A6+	A7+	A5+	A5+	A10+
1500 lm	2700 K	10.8	139	16	202	8.6	174	A8+	A8+	A7+	A7+	A12+
1500 lm	3000 K	10.5	143	16	196	8.3	181	A8+	A9+	A8+	A8+	A12+
1500 lm	4000 K	10.1	149	16	188	8	188	A9+	A10+	A8+	A8+	A12+
2500 lm	2200 K	19.2	130	16	380	16.5	152	A6+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.4	144	16	342	14.8	169	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	332	14.4	174	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.2	154	16	318	13.7	182	A10+	A11+	A9+	A9+	A12+
3500 lm	2200 K	26.7	131	24	352	22.9	153	A6+	A7+	A6+	A6+	A10+
3500 lm	2700 K	25.2	139	16	488	21.4	164	A8+	A8+	A7+	A7+	A12+
3500 lm	3000 K	24.6	142	16	474	20.8	168	A8+	A9+	A7+	A7+	A12+
3500 lm	4000 K	23.6	148	16	452	19.8	177	A9+	A10+	A8+	A8+	A12+
4500 lm	2200 K	34.1	132	24	460	30.3	149	A7+	A7+	A6+	A6+	A10+
4500 lm	2700 K	32.4	139	16	642	28.6	157	A8+	A8+	A7+	A7+	A12+
4500 lm	3000 K	31.4	143	16	624	27.7	162	A8+	A9+	A8+	A8+	A12+
4500 lm	4000 K	30	150	16	594	26.3	171	A9+	A10+	A8+	A8+	A12+
6000 lm	2200 K	47.7	126	24	628	42	143	A6+	A6+	A5+	A5+	A9+
6000 lm	2700 K	43	140	24	564	37.4	160	A8+	A8+	A7+	A7+	A12+
6000 lm	3000 K	41.9	143	24	548	36.3	165	A8+	A9+	A8+	A8+	A12+
6000 lm	4000 K	40	150	24	522	34.5	174	A9+	A10+	A8+	A8+	A12+
9000 lm	2700 K	61.4	147	24	816	55.3	163	A9+	A9+	A8+	A8+	A12+
9000 lm	3000 K	59.8	151	24	794	53.8	167	A9+	A10+	A9+	A9+	A12+
9000 lm	4000 K	56.3	160	24	746	50.3	179	A10+	A11+	A10+	A10+	A12+

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Optic: Type IV - Forward throw

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
1500 lm	2200 K	11.1	135	16	210	8.9	169	A7+	A8+	A7+	A7+	A11+
1500 lm	2700 K	10.1	149	16	190	8	188	A9+	A10+	A8+	A8+	A12+
1500 lm	3000 K	9.9	152	16	184	7.8	192	A9+	A10+	A9+	A9+	A12+
1500 lm	4000 K	9.6	156	16	176	7.5	200	A10+	A11+	A9+	A9+	A12+
2500 lm	2200 K	18	139	16	356	15.4	162	A8+	A8+	A7+	A7+	A12+
2500 lm	2700 K	16.3	153	16	320	13.8	181	A10+	A10+	A9+	A9+	A12+
2500 lm	3000 K	15.9	157	16	312	13.4	187	A10+	A11+	A9+	A9+	A12+
2500 lm	4000 K	15.3	163	16	298	12.8	195	A11+	A12+	A10+	A10+	A12+
3500 lm	2200 K	25.2	139	24	330	21.4	164	A8+	A8+	A7+	A7+	A12+
3500 lm	2700 K	23	152	16	458	20	175	A9+	A10+	A9+	A9+	A12+
3500 lm	3000 K	22.3	157	16	444	19.4	180	A10+	A11+	A9+	A9+	A12+
3500 lm	4000 K	21.3	164	16	424	18.5	189	A11+	A12+	A10+	A10+	A12+
4500 lm	2200 K	32	141	24	432	28.3	159	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.3	149	16	600	26.6	169	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.5	153	16	582	25.8	174	A9+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.2	160	16	556	24.5	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.7	134	24	588	39.1	153	A7+	A8+	A6+	A6+	A11+
6000 lm	2700 K	39	154	24	528	34.9	172	A10+	A10+	A9+	A9+	A12+
6000 lm	3000 K	37.9	158	24	514	33.9	177	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	36.1	166	24	490	32.2	186	A11+	A12+	A11+	A11+	A12+
7000 lm	2700 K	47.3	148	24	624	41.6	168	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.5	152	24	654	43.7	172	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	47.3	159	24	622	41.6	180	A10+	A11+	A10+	A10+	A12+
9000 lm	2700 K	57.4	157	24	762	51.4	175	A10+	A11+	A9+	A9+	A12+
9000 lm	3000 K	55.9	161	24	742	50	180	A11+	A12+	A10+	A10+	A12+
9000 lm	4000 K	52.6	171	24	698	46.8	192	A12+	A12+	A11+	A11+	A12+

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Optic: Type IV - Forward throw

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
1500 lm	2200 K	11.8	127	16	224	9.5	158	A6+	A7+	A5+	A5+	A10+
1500 lm	2700 K	10.8	139	16	202	8.6	174	A8+	A8+	A7+	A7+	A12+
1500 lm	3000 K	10.5	143	16	196	8.3	181	A8+	A9+	A8+	A8+	A12+
1500 lm	4000 K	10.1	149	16	188	8	188	A9+	A10+	A8+	A8+	A12+
2500 lm	2200 K	19.2	130	16	380	16.5	152	A6+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.4	144	16	342	14.8	169	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	332	14.4	174	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.2	154	16	318	13.7	182	A10+	A11+	A9+	A9+	A12+
3500 lm	2200 K	26.7	131	24	352	22.9	153	A6+	A7+	A6+	A6+	A10+
3500 lm	2700 K	25.2	139	16	488	21.4	164	A8+	A8+	A7+	A7+	A12+
3500 lm	3000 K	24.6	142	16	474	20.8	168	A8+	A9+	A7+	A7+	A12+
3500 lm	4000 K	23.6	148	16	452	19.8	177	A9+	A10+	A8+	A8+	A12+
4500 lm	2200 K	34.1	132	24	460	30.3	149	A7+	A7+	A6+	A6+	A10+
4500 lm	2700 K	32.4	139	16	642	28.6	157	A8+	A8+	A7+	A7+	A12+
4500 lm	3000 K	31.4	143	16	624	27.7	162	A8+	A9+	A8+	A8+	A12+
4500 lm	4000 K	30	150	16	594	26.3	171	A9+	A10+	A9+	A9+	A12+
6000 lm	2200 K	47.7	126	24	628	42	143	A6+	A6+	A5+	A5+	A9+
6000 lm	2700 K	43	140	24	564	37.4	160	A8+	A8+	A7+	A7+	A12+
6000 lm	3000 K	41.9	143	24	548	36.3	165	A8+	A9+	A8+	A8+	A12+
6000 lm	4000 K	40	150	24	522	34.5	174	A9+	A10+	A9+	A9+	A12+
9000 lm	2700 K	61.4	147	24	816	55.3	163	A9+	A9+	A8+	A8+	A12+
9000 lm	3000 K	59.8	151	24	794	53.8	167	A9+	A10+	A9+	A9+	A12+
9000 lm	4000 K	56.3	160	24	746	50.3	179	A10+	A11+	A10+	A10+	A12+

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Optic: Type IV - C

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
1500 lm	2200 K	11.1	135	16	210	8.9	169	A7+	A8+	A7+	A7+	A11+
1500 lm	2700 K	10.1	149	16	190	8	188	A9+	A10+	A8+	A8+	A12+
1500 lm	3000 K	9.9	152	16	184	7.8	192	A9+	A10+	A9+	A9+	A12+
1500 lm	4000 K	9.6	156	16	176	7.5	200	A10+	A11+	A9+	A9+	A12+
2500 lm	2200 K	18	139	16	356	15.4	162	A8+	A8+	A7+	A7+	A12+
2500 lm	2700 K	16.3	153	16	320	13.8	181	A10+	A10+	A9+	A9+	A12+
2500 lm	3000 K	15.9	157	16	312	13.4	187	A10+	A11+	A9+	A9+	A12+
2500 lm	4000 K	15.3	163	16	298	12.8	195	A11+	A12+	A10+	A10+	A12+
3500 lm	2200 K	25.2	139	24	330	21.4	164	A8+	A8+	A7+	A7+	A12+
3500 lm	2700 K	23	152	16	458	20	175	A9+	A10+	A9+	A9+	A12+
3500 lm	3000 K	22.3	157	16	444	19.4	180	A10+	A11+	A9+	A9+	A12+
3500 lm	4000 K	21.3	164	16	424	18.5	189	A11+	A12+	A10+	A10+	A12+
4500 lm	2200 K	32	141	24	432	28.3	159	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.3	149	16	600	26.6	169	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.5	153	16	582	25.8	174	A9+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.2	160	16	556	24.5	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.7	134	24	588	39.1	153	A7+	A8+	A6+	A6+	A11+
6000 lm	2700 K	39	154	24	528	34.9	172	A10+	A10+	A9+	A9+	A12+
6000 lm	3000 K	37.9	158	24	514	33.9	177	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	36.1	166	24	490	32.2	186	A11+	A12+	A11+	A11+	A12+
7000 lm	2700 K	47.3	148	24	624	41.6	168	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.5	152	24	654	43.7	172	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	47.3	159	24	622	41.6	180	A10+	A11+	A10+	A10+	A12+
9000 lm	2700 K	57.4	157	24	762	51.4	175	A10+	A11+	A9+	A9+	A12+
9000 lm	3000 K	55.9	161	24	742	50	180	A11+	A12+	A10+	A10+	A12+
9000 lm	4000 K	52.6	171	24	698	46.8	192	A12+	A12+	A11+	A11+	A12+

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Optic: Type IV - C

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	11.8	127	16	224	9.5	158	A6+	A7+	A5+	A5+	A10+
1500 lm	2700 K	10.8	139	16	202	8.6	174	A8+	A8+	A7+	A7+	A12+
1500 lm	3000 K	10.5	143	16	196	8.3	181	A8+	A9+	A8+	A8+	A12+
1500 lm	4000 K	10.1	149	16	188	8	188	A9+	A10+	A8+	A8+	A12+
2500 lm	2200 K	19.2	130	16	380	16.5	152	A6+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.4	144	16	342	14.8	169	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	332	14.4	174	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.2	154	16	318	13.7	182	A10+	A11+	A9+	A9+	A12+
3500 lm	2200 K	26.7	131	24	352	22.9	153	A6+	A7+	A6+	A6+	A10+
3500 lm	2700 K	25.2	139	16	488	21.4	164	A8+	A8+	A7+	A7+	A12+
3500 lm	3000 K	24.6	142	16	474	20.8	168	A8+	A9+	A7+	A7+	A12+
3500 lm	4000 K	23.6	148	16	452	19.8	177	A9+	A10+	A8+	A8+	A12+
4500 lm	2200 K	34.1	132	24	460	30.3	149	A7+	A7+	A6+	A6+	A10+
4500 lm	2700 K	32.4	139	16	642	28.6	157	A8+	A8+	A7+	A7+	A12+
4500 lm	3000 K	31.4	143	16	624	27.7	162	A8+	A9+	A8+	A8+	A12+
4500 lm	4000 K	30	150	16	594	26.3	171	A9+	A10+	A8+	A8+	A12+
6000 lm	2200 K	47.7	126	24	628	42	143	A6+	A6+	A5+	A5+	A9+
6000 lm	2700 K	43	140	24	564	37.4	160	A8+	A8+	A7+	A7+	A12+
6000 lm	3000 K	41.9	143	24	548	36.3	165	A8+	A9+	A8+	A8+	A12+
6000 lm	4000 K	40	150	24	522	34.5	174	A9+	A10+	A8+	A8+	A12+
9000 lm	2700 K	61.4	147	24	816	55.3	163	A9+	A9+	A8+	A8+	A12+
9000 lm	3000 K	59.8	151	24	794	53.8	167	A9+	A10+	A9+	A9+	A12+
9000 lm	4000 K	56.3	160	24	746	50.3	179	A10+	A11+	A10+	A10+	A12+

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Optic: Type V - Rotosymmetric

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	11.1	135	16	210	8.9	169	A7+	A8+	A7+	A7+	A11+
1500 lm	2700 K	10.1	149	16	190	8	188	A9+	A10+	A8+	A8+	A12+
1500 lm	3000 K	9.9	152	16	184	7.8	192	A9+	A10+	A9+	A9+	A12+
1500 lm	4000 K	9.6	156	16	176	7.5	200	A10+	A11+	A9+	A9+	A12+
2500 lm	2200 K	18	139	16	356	15.4	162	A8+	A8+	A7+	A7+	A12+
2500 lm	2700 K	16.3	153	16	320	13.8	181	A10+	A10+	A9+	A9+	A12+
2500 lm	3000 K	15.9	157	16	312	13.4	187	A10+	A11+	A9+	A9+	A12+
2500 lm	4000 K	15.3	163	16	298	12.8	195	A11+	A12+	A10+	A10+	A12+
3500 lm	2200 K	25.2	139	24	330	21.4	164	A8+	A8+	A7+	A7+	A12+
3500 lm	2700 K	23	152	16	458	20	175	A9+	A10+	A9+	A9+	A12+
3500 lm	3000 K	22.3	157	16	444	19.4	180	A10+	A11+	A9+	A9+	A12+
3500 lm	4000 K	21.3	164	16	424	18.5	189	A11+	A12+	A10+	A10+	A12+
4500 lm	2200 K	32	141	24	432	28.3	159	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.3	149	16	600	26.6	169	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.5	153	16	582	25.8	174	A9+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.2	160	16	556	24.5	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.7	134	24	588	39.1	153	A7+	A8+	A6+	A6+	A11+
6000 lm	2700 K	39	154	24	528	34.9	172	A10+	A10+	A9+	A9+	A12+
6000 lm	3000 K	37.9	158	24	514	33.9	177	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	36.1	166	24	490	32.2	186	A11+	A12+	A11+	A11+	A12+
7000 lm	2700 K	47.3	148	24	624	41.6	168	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.5	152	24	654	43.7	172	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	47.3	159	24	622	41.6	180	A10+	A11+	A10+	A10+	A12+
9000 lm	2700 K	57.4	157	24	762	51.4	175	A10+	A11+	A9+	A9+	A12+
9000 lm	3000 K	55.9	161	24	742	50	180	A11+	A12+	A10+	A10+	A12+
9000 lm	4000 K	52.6	171	24	698	46.8	192	A12+	A12+	A11+	A11+	A12+

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Optic: Type V - Rotosymmetric

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	11.8	127	16	224	9.5	158	A6+	A7+	A5+	A5+	A10+
1500 lm	2700 K	10.8	139	16	202	8.6	174	A8+	A8+	A7+	A7+	A12+
1500 lm	3000 K	10.5	143	16	196	8.3	181	A8+	A9+	A8+	A8+	A12+
1500 lm	4000 K	10.1	149	16	188	8	188	A9+	A10+	A8+	A8+	A12+
2500 lm	2200 K	19.2	130	16	380	16.5	152	A6+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.4	144	16	342	14.8	169	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	332	14.4	174	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.2	154	16	318	13.7	182	A10+	A11+	A9+	A9+	A12+
3500 lm	2200 K	26.7	131	24	352	22.9	153	A6+	A7+	A6+	A6+	A10+
3500 lm	2700 K	25.2	139	16	488	21.4	164	A8+	A8+	A7+	A7+	A12+
3500 lm	3000 K	24.6	142	16	474	20.8	168	A8+	A9+	A7+	A7+	A12+
3500 lm	4000 K	23.6	148	16	452	19.8	177	A9+	A10+	A8+	A8+	A12+
4500 lm	2200 K	34.1	132	24	460	30.3	149	A7+	A7+	A6+	A6+	A10+
4500 lm	2700 K	32.4	139	16	642	28.6	157	A8+	A8+	A7+	A7+	A12+
4500 lm	3000 K	31.4	143	16	624	27.7	162	A8+	A9+	A8+	A8+	A12+
4500 lm	4000 K	30	150	16	594	26.3	171	A9+	A10+	A9+	A9+	A12+
6000 lm	2200 K	47.7	126	24	628	42	143	A6+	A6+	A5+	A5+	A9+
6000 lm	2700 K	43	140	24	564	37.4	160	A8+	A8+	A7+	A7+	A12+
6000 lm	3000 K	41.9	143	24	548	36.3	165	A8+	A9+	A8+	A8+	A12+
6000 lm	4000 K	40	150	24	522	34.5	174	A9+	A10+	A9+	A9+	A12+
9000 lm	2700 K	61.4	147	24	816	55.3	163	A9+	A9+	A8+	A8+	A12+
9000 lm	3000 K	59.8	151	24	794	53.8	167	A9+	A10+	A9+	A9+	A12+
9000 lm	4000 K	56.3	160	24	746	50.3	179	A10+	A11+	A10+	A10+	A12+

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TW 2200-4000 K

Optic: Type I - Center road

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
2500 lm	4000 K	20.8	120	24	267	17.8	140	A5+	A6+	A5+	A5+	A9+
3500 lm	4000 K	30.4	115	24	390	26.3	133	A4+	A5+	A4+	A4+	A8+
4500 lm	4000 K	40.8	110	24	526	35.8	126	A4+	A4+	A3+	A3+	A7+

Optic: Type II - Asymmetric

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
2500 lm	4000 K	20.8	120	24	267	17.8	140	A5+	A6+	A5+	A5+	A9+
3500 lm	4000 K	30.4	115	24	390	26.3	133	A4+	A5+	A4+	A4+	A8+
4500 lm	4000 K	40.8	110	24	526	35.8	126	A4+	A4+	A3+	A3+	A7+

Optic: Type III - B

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
2500 lm	4000 K	20.8	120	24	267	17.8	140	A5+	A6+	A5+	A5+	A9+
3500 lm	4000 K	30.4	115	24	390	26.3	133	A4+	A5+	A4+	A4+	A8+
4500 lm	4000 K	40.8	110	24	526	35.8	126	A4+	A4+	A3+	A3+	A7+

Optic: Type III - C

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
2500 lm	4000 K	20.8	120	24	267	17.8	140	A5+	A6+	A5+	A5+	A9+
3500 lm	4000 K	30.4	115	24	390	26.3	133	A4+	A5+	A4+	A4+	A8+
4500 lm	4000 K	40.8	110	24	526	35.8	126	A4+	A4+	A3+	A3+	A7+

Optic: Type III - Asymmetric

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
2500 lm	4000 K	20.8	120	24	267	17.8	140	A5+	A6+	A5+	A5+	A9+
3500 lm	4000 K	30.4	115	24	390	26.3	133	A4+	A5+	A4+	A4+	A8+
4500 lm	4000 K	40.8	110	24	526	35.8	126	A4+	A4+	A3+	A3+	A7+

Optic: Type IV - Forward throw

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
2500 lm	4000 K	20.8	120	24	267	17.8	140	A5+	A6+	A5+	A5+	A9+
3500 lm	4000 K	30.4	115	24	390	26.3	133	A4+	A5+	A4+	A4+	A8+
4500 lm	4000 K	40.8	110	24	526	35.8	126	A4+	A4+	A3+	A3+	A7+

Optic: Type IV - C

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
2500 lm	4000 K	20.8	120	24	267	17.8	140	A5+	A6+	A5+	A5+	A9+
3500 lm	4000 K	30.4	115	24	390	26.3	133	A4+	A5+	A4+	A4+	A8+
4500 lm	4000 K	40.8	110	24	526	35.8	126	A4+	A4+	A3+	A3+	A7+

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TW 2200-4000 K

Optic: Type V - Rotosymmetric

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
2500 lm	4000 K	20.8	120	24	267	17.8	140	A5+	A6+	A5+	A5+	A9+
3500 lm	4000 K	30.4	115	24	390	26.3	133	A4+	A5+	A4+	A4+	A8+
4500 lm	4000 K	40.8	110	24	526	35.8	126	A4+	A4+	A3+	A3+	A7+

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