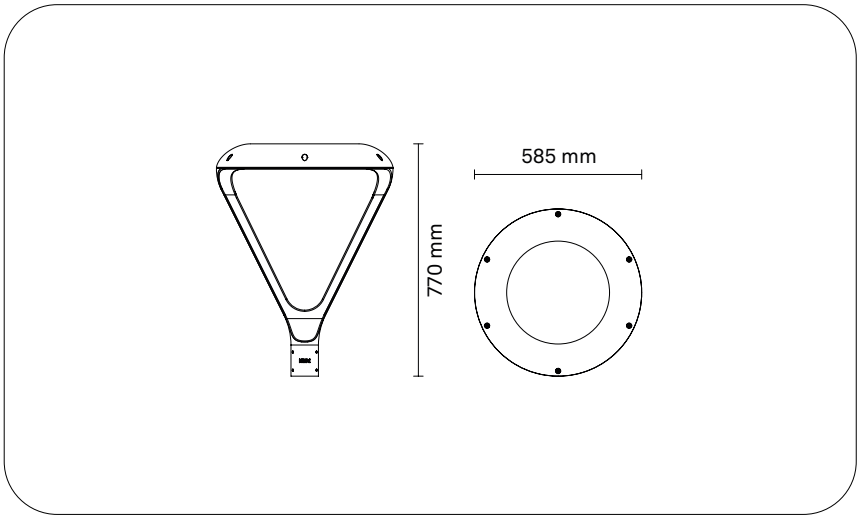
NERI

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

LANG | LUMINAIRE | 2 LIGHT SOURCES





IP66 IK08 Classe II

ORDERING INFORMATION / GUIDE

Example: **LULAN03-N-D13-740-L050-SP-V1-F02-M2-CN0**

OPTIQUE	RA+K	LUMINOUS FLUX	SCREEN FINISH	POWER SUPPLY	DRIVER FUNCTION	ISO CLASS	FINISH
D06 Type II + Type III	**727** Ra70 2700 K	**L038** 3800 lm	**ST** Transparent	**V1** 220V-240V	**F27** ON/OFF+CLO	**M2** Class II	**CN0** Grey [Neri] Textured
D12 Type II + Type IV	**730** Ra70 3000 K	**L050** 5000 lm	**SP** Prismatic		**F02** 1-10V+CLO		
D07 Type III + Type III	**740** Ra70 4000 K	**L053** 5300 lm			**F06** DALI+CLO		
D08 Type III + Type IV		**L068** 6800 lm			**F10** D4i+ZHAGA		
D13 Type IV + Type IV		**L070** 7000 lm			**F04** Ampdim+CLO		
		L113 11300 lm			**F14** NVL6H+CLO		
		L120 12000 lm					
		L150 15000 lm					
		LX01 4500 lm + 4500 lm					
		LX02 6000 lm + 3000 lm					

Generated code: **LULAN03 - N** - _ _ _ - _ _ _ - _ _ _ _ - _ _ - _ _ - _ _ _ - _ _ - _ _ _

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: D, E
LED forward current: 178-691 mA
Power rating: 23.3-126.5 W
Nominal Flux: 3750-15000 lm
Nominal CCT (Colour temperature): 2700 K, 3000 K, 4000 K
Color Rendering Index (Ra): 70
Standard Deviation Colour Matching: ≤5
Rated lifetime: L80B10 100000 h @ Tq = 25 °C

LIGHTING CHARACTERISTICS
Modular 3x3 refractive lenses in PMMA.

Optique: Type II + Type III, Type II + Type IV, Type III + Type III, Type III + Type IV, Type IV + Type IV
Optical efficiency: LOR = 100% ULOR = 0%
LED quantity: 32, 48, 64
Cutoff Angle: Cutoff, Semi Cutoff C = 5, 215° γ = 2, 70°
Luminous flux: 3750-15000 lm
Luminous efficacy: 108-133 lm/W
Maximum luminous intensity γ 90°: ≤0.46 cd/klm
Luminous intensity class: G*3, G*4, G*6
IPEA: Road A++ / A7+, Urban A4+ / A7+, Ped A++ / A6+, Park A++ / A6+, Art A5+ / A11+
BUG: B=1-4, U=1, G=1-3
Photobiological safety: RG1 - Low risk

ELECTRICAL CHARACTERISTICS
Luminaire power: 28.2-136.5 W
Power supply: 220V-240V~ 50/60Hz
Power factor: ≥0.99
Insulation class: Class II
Control type - driver: ON/OFF+CLO, 1-10V+CLO, DALI+CLO, D4i+ZHAGA, Ampdim+CLO, NVL6H+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: H07RN-F 2X1.5mm², H07RN-F 4X1.5mm²
Cable length: 1 m
Surge protection: 10kV CM - 6kV DM

MECHANICAL CHARACTERISTICS
Structure made of cast and sheet aluminum (UNI EN 1706) with an internal extruded aluminum heat sink and a screw-open top cover.
Extra-clear prismatized flat glass screen with double screen and white polycarbonate recovery reflector.
Equipped with an osmotic valve for internal/external pressure balancing and a compartment designed for surge protection devices or remote control systems.
Stainless steel screws.

Diameter: 585 mm
Height: 774 mm
Weight: 18.75 kg
Wind-exposed area: 0.15 m²
Protection degree: IP66
Mechanical resistance: IK08
Finish: Grey [Neri] Textured

INSTALLATION
Post-top installation on Ø 60 mm, Ø 76 mm, and Ø 89 mm poles.
Pole-top mounting on Ø 60 mm tubes (with reducing ring) and on Ø 76 mm tubes (without reducing ring).
Flush-mounted on Ø 89 mm tubes.

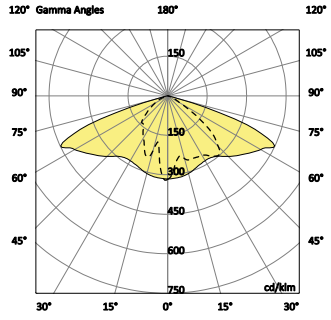
WARNINGS
Luminaire designed for disposal/recycling at end-of-life.
Replaceable (LED only) light source by a professional.
Replaceable control gear by a professional.
Protection of surfaces: please refer to the specification on painting procedures of the materials.

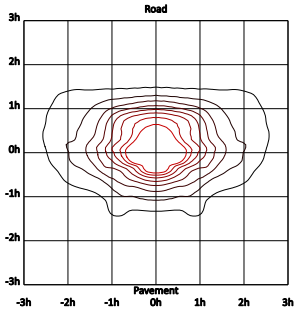
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LANG | LUMINAIRE | 2 LIGHT SOURCES

Optic: Type II + Type III

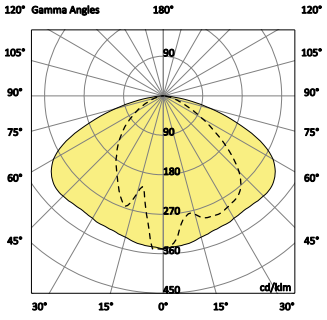
Screen finish: Transparent

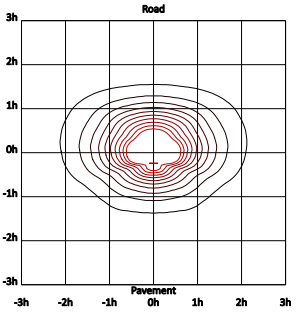




Optic: Type II + Type III

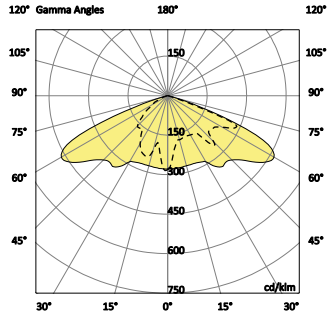
Screen finish: Prismatic

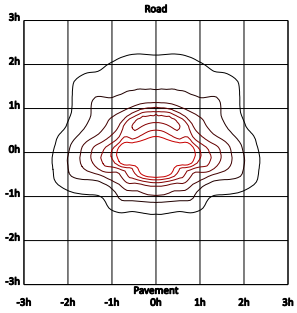




Optic: Type II + Type IV

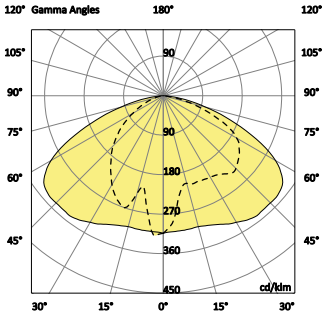
Screen finish: Transparent

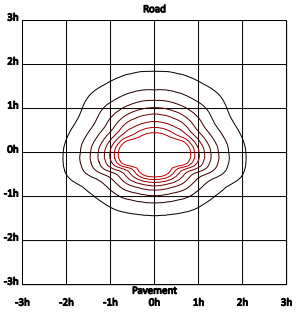




Optic: Type II + Type IV

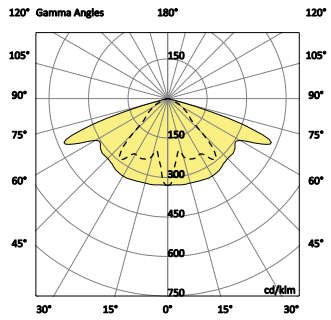
Screen finish: Prismatic

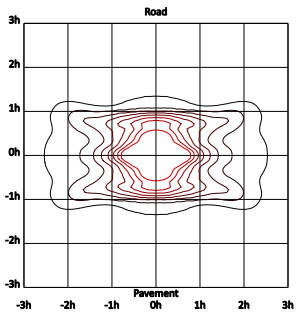




Optic: Type III + Type III

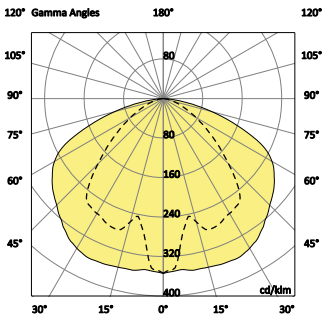
Screen finish: Transparent

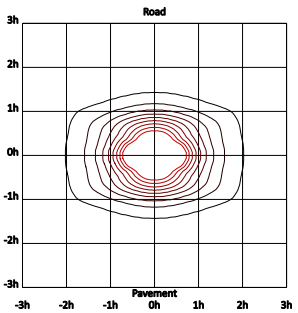




Optic: Type III + Type III

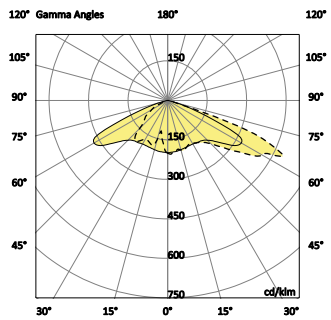
Screen finish: Prismatic

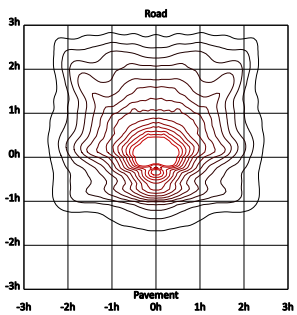




Optic: Type III + Type IV

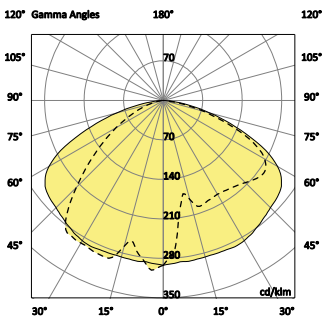
Screen finish: Transparent

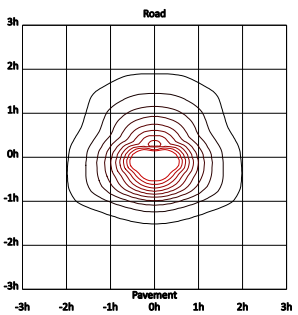




Optic: Type III + Type IV

Screen finish: Prismatic



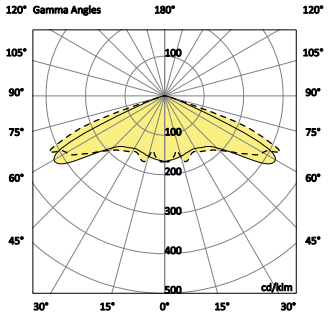


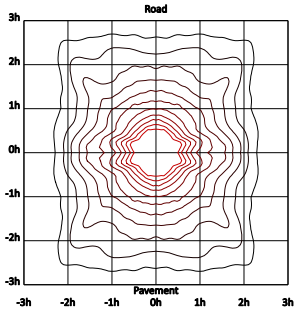
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Optic: Type IV + Type IV

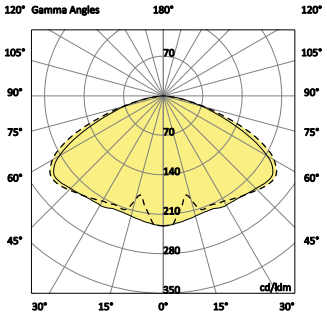
Screen finish: Transparent

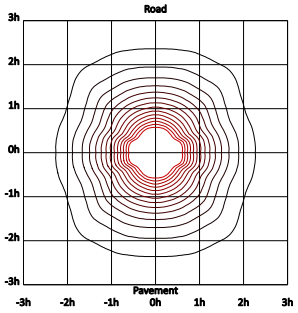




Optic: Type IV + Type IV

Screen finish: Prismatic





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Optic: Type II + Type III

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
3750 lm	2700 K	29.8	126	48	189	24.7	152	A6+	A6+	A5+	A5+	A9+
3750 lm	3000 K	29	129	48	184	24	156	A6+	A7+	A6+	A6+	A10+
3750 lm	4000 K	28.2	133	48	178	23.3	161	A7+	A7+	A6+	A6+	A11+
5000 lm	2700 K	42.1	119	32	405	36.5	137	A5+	A5+	A4+	A4+	A8+
5000 lm	3000 K	40.9	122	32	393	35.4	141	A5+	A6+	A5+	A5+	A9+
5000 lm	4000 K	39.6	126	32	380	34.1	147	A6+	A7+	A5+	A5+	A10+
5250 lm	2700 K	42.2	124	48	271	36	146	A6+	A6+	A5+	A5+	A9+
5250 lm	3000 K	41.1	128	48	263	35	150	A6+	A7+	A6+	A6+	A10+
5250 lm	4000 K	39.8	132	48	255	33.8	155	A7+	A7+	A6+	A6+	A10+
6750 lm	2700 K	55.1	123	48	359	48.2	140	A5+	A6+	A5+	A5+	A9+
6750 lm	3000 K	53.7	126	48	349	46.8	144	A6+	A6+	A5+	A5+	A9+
6750 lm	4000 K	52	130	48	337	45.2	149	A6+	A7+	A6+	A6+	A10+
7000 lm	2700 K	61.5	114	32	607	55.4	126	A4+	A5+	A4+	A4+	A7+
7000 lm	3000 K	59.6	117	32	589	53.6	131	A5+	A5+	A4+	A4+	A8+
7000 lm	4000 K	57.6	122	32	567	51.6	136	A5+	A6+	A5+	A5+	A9+
9000 lm	2700 K	72.7	124	64	359	64.3	140	A5+	A6+	A4+	A4+	A9+
9000 lm	2700 K	76.1	118	48	503	68.4	132	A4+	A5+	A3+	A3+	A8+
9000 lm	3000 K	70.7	127	64	349	62.4	144	A5+	A7+	A4+	A4+	A10+
9000 lm	3000 K	73.9	122	48	488	66.3	136	A5+	A6+	A4+	A4+	A9+
9000 lm	4000 K	68.3	132	64	337	60.2	150	A6+	A7+	A5+	A5+	A10+
9000 lm	4000 K	71.5	126	48	471	63.9	141	A5+	A6+	A4+	A4+	A9+
11250 lm	2700 K	99.3	113	48	662	90.7	124	A++	A5+	A++	A++	A6+
11250 lm	3000 K	96.4	117	48	641	87.9	128	A3+	A5+	A++	A++	A6+
11250 lm	4000 K	92.9	121	48	617	84.5	133	A3+	A6+	A3+	A3+	A7+
12000 lm	2700 K	100.3	120	64	503	91.2	132	A3+	A6+	A3+	A3+	A7+
12000 lm	3000 K	97.5	123	64	488	88.4	136	A3+	A6+	A3+	A3+	A7+
12000 lm	4000 K	94	128	64	471	85.1	141	A4+	A7+	A4+	A4+	A8+
15000 lm	2700 K	130.8	115	64	662	121	124	A+	A4+	A++	A++	A6+
15000 lm	3000 K	126.7	118	64	641	117.1	128	A++	A5+	A++	A++	A7+
15000 lm	4000 K	122.2	123	64	617	112.7	133	A++	A6+	A++	A++	A7+

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LANG | LUMINAIRE | 2 LIGHT SOURCES

Optic: Type II + Type III

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
3750 lm	2700 K	30.9	121	48	196	25.7	146	A5+	A6+	A5+	A5+	A9+
3750 lm	3000 K	30.1	125	48	191	25	150	A6+	A6+	A5+	A5+	A9+
3750 lm	4000 K	29.2	128	48	185	24.2	155	A6+	A7+	A6+	A6+	A10+
5000 lm	2700 K	43.6	115	32	422	38	132	A4+	A5+	A4+	A4+	A8+
5000 lm	3000 K	42.5	118	32	410	36.9	136	A5+	A5+	A4+	A4+	A8+
5000 lm	4000 K	41.1	122	32	395	35.6	140	A5+	A6+	A5+	A5+	A9+
5250 lm	2700 K	43.7	120	48	281	37.4	140	A5+	A6+	A5+	A5+	A9+
5250 lm	3000 K	42.6	123	48	273	36.4	144	A5+	A6+	A5+	A5+	A9+
5250 lm	4000 K	41.2	127	48	264	35.1	150	A6+	A7+	A5+	A5+	A10+
6750 lm	2700 K	57.4	118	48	373	50.3	134	A5+	A5+	A4+	A4+	A8+
6750 lm	3000 K	55.8	121	48	363	48.8	138	A5+	A6+	A5+	A5+	A9+
6750 lm	4000 K	54	125	48	350	47.1	143	A6+	A6+	A5+	A5+	A9+
7000 lm	2700 K	64.1	109	32	634	57.9	121	A3+	A4+	A3+	A3+	A7+
7000 lm	3000 K	62.3	112	32	615	56.1	125	A4+	A5+	A3+	A3+	A7+
7000 lm	4000 K	60	117	32	592	53.9	130	A4+	A5+	A4+	A4+	A8+
9000 lm	2700 K	75.5	119	64	373	67	134	A4+	A6+	A3+	A3+	A8+
9000 lm	2700 K	79.2	114	48	525	71.4	126	A4+	A5+	A3+	A3+	A7+
9000 lm	3000 K	73.4	123	64	363	65	138	A5+	A6+	A4+	A4+	A9+
9000 lm	3000 K	76.9	117	48	509	69.2	130	A4+	A5+	A3+	A3+	A8+
9000 lm	4000 K	70.9	127	64	350	62.7	144	A5+	A7+	A4+	A4+	A10+
9000 lm	4000 K	74.4	121	48	490	66.7	135	A5+	A6+	A4+	A4+	A9+
11250 lm	2700 K	103.8	108	48	691	94.9	119	A++	A4+	A+	A+	A5+
11250 lm	3000 K	100.7	112	48	670	91.9	122	A++	A4+	A++	A++	A6+
11250 lm	4000 K	96.8	116	48	645	88.3	127	A++	A5+	A++	A++	A6+
12000 lm	2700 K	104.4	115	64	525	95.2	126	A++	A5+	A++	A++	A6+
12000 lm	3000 K	101.4	118	64	509	92.3	130	A3+	A5+	A++	A++	A7+
12000 lm	4000 K	97.9	123	64	490	88.9	135	A3+	A6+	A3+	A3+	A7+
15000 lm	2700 K	136.5	110	64	691	126.5	119	A+	A4+	A+	A+	A5+
15000 lm	3000 K	132.3	113	64	670	122.5	122	A+	A4+	A+	A+	A6+
15000 lm	4000 K	127.5	118	64	645	117.8	127	A++	A5+	A++	A++	A7+

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LANG | LUMINAIRE | 2 LIGHT SOURCES

Optic: Type II + Type IV

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
3750 lm	2700 K	29.8	126	48	189	24.7	152	A6+	A6+	A5+	A5+	A9+
3750 lm	3000 K	29	129	48	184	24	156	A6+	A7+	A6+	A6+	A10+
3750 lm	4000 K	28.2	133	48	178	23.3	161	A7+	A7+	A6+	A6+	A11+
5000 lm	2700 K	42.1	119	32	405	36.5	137	A5+	A5+	A4+	A4+	A8+
5000 lm	3000 K	40.9	122	32	393	35.4	141	A5+	A6+	A5+	A5+	A9+
5000 lm	4000 K	39.6	126	32	380	34.1	147	A6+	A7+	A5+	A5+	A10+
5250 lm	2700 K	42.2	124	48	271	36	146	A6+	A6+	A5+	A5+	A9+
5250 lm	3000 K	41.1	128	48	263	35	150	A6+	A7+	A6+	A6+	A10+
5250 lm	4000 K	39.8	132	48	255	33.8	155	A7+	A7+	A6+	A6+	A10+
6750 lm	2700 K	55.1	123	48	359	48.2	140	A5+	A6+	A5+	A5+	A9+
6750 lm	3000 K	53.7	126	48	349	46.8	144	A6+	A6+	A5+	A5+	A9+
6750 lm	4000 K	52	130	48	337	45.2	149	A6+	A7+	A6+	A6+	A10+
7000 lm	2700 K	61.5	114	32	607	55.4	126	A4+	A5+	A4+	A4+	A7+
7000 lm	3000 K	59.6	117	32	589	53.6	131	A5+	A5+	A4+	A4+	A8+
7000 lm	4000 K	57.6	122	32	567	51.6	136	A5+	A6+	A5+	A5+	A9+
9000 lm	2700 K	72.7	124	64	359	64.3	140	A5+	A6+	A4+	A4+	A9+
9000 lm	2700 K	76.1	118	48	503	68.4	132	A4+	A5+	A3+	A3+	A8+
9000 lm	3000 K	70.7	127	64	349	62.4	144	A5+	A7+	A4+	A4+	A10+
9000 lm	3000 K	73.9	122	48	488	66.3	136	A5+	A6+	A4+	A4+	A9+
9000 lm	4000 K	68.3	132	64	337	60.2	150	A6+	A7+	A5+	A5+	A10+
9000 lm	4000 K	71.5	126	48	471	63.9	141	A5+	A6+	A4+	A4+	A9+
11250 lm	2700 K	99.3	113	48	662	90.7	124	A++	A5+	A++	A++	A6+
11250 lm	3000 K	96.4	117	48	641	87.9	128	A3+	A5+	A++	A++	A6+
11250 lm	4000 K	92.9	121	48	617	84.5	133	A3+	A6+	A3+	A3+	A7+
12000 lm	2700 K	100.3	120	64	503	91.2	132	A3+	A6+	A3+	A3+	A7+
12000 lm	3000 K	97.5	123	64	488	88.4	136	A3+	A6+	A3+	A3+	A7+
12000 lm	4000 K	94	128	64	471	85.1	141	A4+	A7+	A4+	A4+	A8+
15000 lm	2700 K	130.8	115	64	662	121	124	A+	A4+	A++	A++	A6+
15000 lm	3000 K	126.7	118	64	641	117.1	128	A++	A5+	A++	A++	A7+
15000 lm	4000 K	122.2	123	64	617	112.7	133	A++	A6+	A++	A++	A7+

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LANG | LUMINAIRE | 2 LIGHT SOURCES

Optic: Type II + Type IV

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
3750 lm	2700 K	30.9	121	48	196	25.7	146	A5+	A6+	A5+	A5+	A9+
3750 lm	3000 K	30.1	125	48	191	25	150	A6+	A6+	A5+	A5+	A9+
3750 lm	4000 K	29.2	128	48	185	24.2	155	A6+	A7+	A6+	A6+	A10+
5000 lm	2700 K	43.6	115	32	422	38	132	A4+	A5+	A4+	A4+	A8+
5000 lm	3000 K	42.5	118	32	410	36.9	136	A5+	A5+	A4+	A4+	A8+
5000 lm	4000 K	41.1	122	32	395	35.6	140	A5+	A6+	A5+	A5+	A9+
5250 lm	2700 K	43.7	120	48	281	37.4	140	A5+	A6+	A5+	A5+	A9+
5250 lm	3000 K	42.6	123	48	273	36.4	144	A5+	A6+	A5+	A5+	A9+
5250 lm	4000 K	41.2	127	48	264	35.1	150	A6+	A7+	A5+	A5+	A10+
6750 lm	2700 K	57.4	118	48	373	50.3	134	A5+	A5+	A4+	A4+	A8+
6750 lm	3000 K	55.8	121	48	363	48.8	138	A5+	A6+	A5+	A5+	A9+
6750 lm	4000 K	54	125	48	350	47.1	143	A6+	A6+	A5+	A5+	A9+
7000 lm	2700 K	64.1	109	32	634	57.9	121	A3+	A4+	A3+	A3+	A7+
7000 lm	3000 K	62.3	112	32	615	56.1	125	A4+	A5+	A3+	A3+	A7+
7000 lm	4000 K	60	117	32	592	53.9	130	A4+	A5+	A4+	A4+	A8+
9000 lm	2700 K	75.5	119	64	373	67	134	A4+	A6+	A3+	A3+	A8+
9000 lm	2700 K	79.2	114	48	525	71.4	126	A4+	A5+	A3+	A3+	A7+
9000 lm	3000 K	73.4	123	64	363	65	138	A5+	A6+	A4+	A4+	A9+
9000 lm	3000 K	76.9	117	48	509	69.2	130	A4+	A5+	A3+	A3+	A8+
9000 lm	4000 K	70.9	127	64	350	62.7	144	A5+	A7+	A4+	A4+	A10+
9000 lm	4000 K	74.4	121	48	490	66.7	135	A5+	A6+	A4+	A4+	A9+
11250 lm	2700 K	103.8	108	48	691	94.9	119	A++	A4+	A+	A+	A5+
11250 lm	3000 K	100.7	112	48	670	91.9	122	A++	A4+	A++	A++	A6+
11250 lm	4000 K	96.8	116	48	645	88.3	127	A++	A5+	A++	A++	A6+
12000 lm	2700 K	104.4	115	64	525	95.2	126	A++	A5+	A++	A++	A6+
12000 lm	3000 K	101.4	118	64	509	92.3	130	A3+	A5+	A++	A++	A7+
12000 lm	4000 K	97.9	123	64	490	88.9	135	A3+	A6+	A3+	A3+	A7+
15000 lm	2700 K	136.5	110	64	691	126.5	119	A+	A4+	A+	A+	A5+
15000 lm	3000 K	132.3	113	64	670	122.5	122	A+	A4+	A+	A+	A6+
15000 lm	4000 K	127.5	118	64	645	117.8	127	A++	A5+	A++	A++	A7+

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LANG | LUMINAIRE | 2 LIGHT SOURCES

Optic: Type III + Type III

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
3750 lm	2700 K	29.8	126	48	189	24.7	152	A6+	A6+	A5+	A5+	A9+
3750 lm	3000 K	29	129	48	184	24	156	A6+	A7+	A6+	A6+	A10+
3750 lm	4000 K	28.2	133	48	178	23.3	161	A7+	A7+	A6+	A6+	A11+
5000 lm	2700 K	42.1	119	32	405	36.5	137	A5+	A5+	A4+	A4+	A8+
5000 lm	3000 K	40.9	122	32	393	35.4	141	A5+	A6+	A5+	A5+	A9+
5000 lm	4000 K	39.6	126	32	380	34.1	147	A6+	A7+	A5+	A5+	A10+
5250 lm	2700 K	42.2	124	48	271	36	146	A6+	A6+	A5+	A5+	A9+
5250 lm	3000 K	41.1	128	48	263	35	150	A6+	A7+	A6+	A6+	A10+
5250 lm	4000 K	39.8	132	48	255	33.8	155	A7+	A7+	A6+	A6+	A10+
6750 lm	2700 K	55.1	123	48	359	48.2	140	A5+	A6+	A5+	A5+	A9+
6750 lm	3000 K	53.7	126	48	349	46.8	144	A6+	A6+	A5+	A5+	A9+
6750 lm	4000 K	52	130	48	337	45.2	149	A6+	A7+	A6+	A6+	A10+
7000 lm	2700 K	61.5	114	32	607	55.4	126	A4+	A5+	A4+	A4+	A7+
7000 lm	3000 K	59.6	117	32	589	53.6	131	A5+	A5+	A4+	A4+	A8+
7000 lm	4000 K	57.6	122	32	567	51.6	136	A5+	A6+	A5+	A5+	A9+
9000 lm	2700 K	72.7	124	64	359	64.3	140	A5+	A6+	A4+	A4+	A9+
9000 lm	2700 K	76.1	118	48	503	68.4	132	A4+	A5+	A3+	A3+	A8+
9000 lm	3000 K	70.7	127	64	349	62.4	144	A5+	A7+	A4+	A4+	A10+
9000 lm	3000 K	73.9	122	48	488	66.3	136	A5+	A6+	A4+	A4+	A9+
9000 lm	4000 K	68.3	132	64	337	60.2	150	A6+	A7+	A5+	A5+	A10+
9000 lm	4000 K	71.5	126	48	471	63.9	141	A5+	A6+	A4+	A4+	A9+
11250 lm	2700 K	99.3	113	48	662	90.7	124	A++	A5+	A++	A++	A6+
11250 lm	3000 K	96.4	117	48	641	87.9	128	A3+	A5+	A++	A++	A6+
11250 lm	4000 K	92.9	121	48	617	84.5	133	A3+	A6+	A3+	A3+	A7+
12000 lm	2700 K	100.3	120	64	503	91.2	132	A3+	A6+	A3+	A3+	A7+
12000 lm	3000 K	97.5	123	64	488	88.4	136	A3+	A6+	A3+	A3+	A7+
12000 lm	4000 K	94	128	64	471	85.1	141	A4+	A7+	A4+	A4+	A8+
15000 lm	2700 K	130.8	115	64	662	121	124	A+	A4+	A++	A++	A6+
15000 lm	3000 K	126.7	118	64	641	117.1	128	A++	A5+	A++	A++	A7+
15000 lm	4000 K	122.2	123	64	617	112.7	133	A++	A6+	A++	A++	A7+

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LANG | LUMINAIRE | 2 LIGHT SOURCES

Optic: Type III + Type III

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
3750 lm	2700 K	30.9	121	48	196	25.7	146	A5+	A6+	A5+	A5+	A9+
3750 lm	3000 K	30.1	125	48	191	25	150	A6+	A6+	A5+	A5+	A9+
3750 lm	4000 K	29.2	128	48	185	24.2	155	A6+	A7+	A6+	A6+	A10+
5000 lm	2700 K	43.6	115	32	422	38	132	A4+	A5+	A4+	A4+	A8+
5000 lm	3000 K	42.5	118	32	410	36.9	136	A5+	A5+	A4+	A4+	A8+
5000 lm	4000 K	41.1	122	32	395	35.6	140	A5+	A6+	A5+	A5+	A9+
5250 lm	2700 K	43.7	120	48	281	37.4	140	A5+	A6+	A5+	A5+	A9+
5250 lm	3000 K	42.6	123	48	273	36.4	144	A5+	A6+	A5+	A5+	A9+
5250 lm	4000 K	41.2	127	48	264	35.1	150	A6+	A7+	A5+	A5+	A10+
6750 lm	2700 K	57.4	118	48	373	50.3	134	A5+	A5+	A4+	A4+	A8+
6750 lm	3000 K	55.8	121	48	363	48.8	138	A5+	A6+	A5+	A5+	A9+
6750 lm	4000 K	54	125	48	350	47.1	143	A6+	A6+	A5+	A5+	A9+
7000 lm	2700 K	64.1	109	32	634	57.9	121	A3+	A4+	A3+	A3+	A7+
7000 lm	3000 K	62.3	112	32	615	56.1	125	A4+	A5+	A3+	A3+	A7+
7000 lm	4000 K	60	117	32	592	53.9	130	A4+	A5+	A4+	A4+	A8+
9000 lm	2700 K	75.5	119	64	373	67	134	A4+	A6+	A3+	A3+	A8+
9000 lm	2700 K	79.2	114	48	525	71.4	126	A4+	A5+	A3+	A3+	A7+
9000 lm	3000 K	73.4	123	64	363	65	138	A5+	A6+	A4+	A4+	A9+
9000 lm	3000 K	76.9	117	48	509	69.2	130	A4+	A5+	A3+	A3+	A8+
9000 lm	4000 K	70.9	127	64	350	62.7	144	A5+	A7+	A4+	A4+	A10+
9000 lm	4000 K	74.4	121	48	490	66.7	135	A5+	A6+	A4+	A4+	A9+
11250 lm	2700 K	103.8	108	48	691	94.9	119	A++	A4+	A+	A+	A5+
11250 lm	3000 K	100.7	112	48	670	91.9	122	A++	A4+	A++	A++	A6+
11250 lm	4000 K	96.8	116	48	645	88.3	127	A++	A5+	A++	A++	A6+
12000 lm	2700 K	104.4	115	64	525	95.2	126	A++	A5+	A++	A++	A6+
12000 lm	3000 K	101.4	118	64	509	92.3	130	A3+	A5+	A++	A++	A7+
12000 lm	4000 K	97.9	123	64	490	88.9	135	A3+	A6+	A3+	A3+	A7+
15000 lm	2700 K	136.5	110	64	691	126.5	119	A+	A4+	A+	A+	A5+
15000 lm	3000 K	132.3	113	64	670	122.5	122	A+	A4+	A+	A+	A6+
15000 lm	4000 K	127.5	118	64	645	117.8	127	A++	A5+	A++	A++	A7+

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LANG | LUMINAIRE | 2 LIGHT SOURCES

Optic: Type III + Type IV

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
3750 lm	2700 K	29.8	126	48	189	24.7	152	A6+	A6+	A5+	A5+	A9+
3750 lm	3000 K	29	129	48	184	24	156	A6+	A7+	A6+	A6+	A10+
3750 lm	4000 K	28.2	133	48	178	23.3	161	A7+	A7+	A6+	A6+	A11+
5000 lm	2700 K	42.1	119	32	405	36.5	137	A5+	A5+	A4+	A4+	A8+
5000 lm	3000 K	40.9	122	32	393	35.4	141	A5+	A6+	A5+	A5+	A9+
5000 lm	4000 K	39.6	126	32	380	34.1	147	A6+	A7+	A5+	A5+	A10+
5250 lm	2700 K	42.2	124	48	271	36	146	A6+	A6+	A5+	A5+	A9+
5250 lm	3000 K	41.1	128	48	263	35	150	A6+	A7+	A6+	A6+	A10+
5250 lm	4000 K	39.8	132	48	255	33.8	155	A7+	A7+	A6+	A6+	A10+
6750 lm	2700 K	55.1	123	48	359	48.2	140	A5+	A6+	A5+	A5+	A9+
6750 lm	3000 K	53.7	126	48	349	46.8	144	A6+	A6+	A5+	A5+	A9+
6750 lm	4000 K	52	130	48	337	45.2	149	A6+	A7+	A6+	A6+	A10+
7000 lm	2700 K	61.5	114	32	607	55.4	126	A4+	A5+	A4+	A4+	A7+
7000 lm	3000 K	59.6	117	32	589	53.6	131	A5+	A5+	A4+	A4+	A8+
7000 lm	4000 K	57.6	122	32	567	51.6	136	A5+	A6+	A5+	A5+	A9+
9000 lm	2700 K	72.7	124	64	359	64.3	140	A5+	A6+	A4+	A4+	A9+
9000 lm	2700 K	76.1	118	48	503	68.4	132	A4+	A5+	A3+	A3+	A8+
9000 lm	3000 K	70.7	127	64	349	62.4	144	A5+	A7+	A4+	A4+	A10+
9000 lm	3000 K	73.9	122	48	488	66.3	136	A5+	A6+	A4+	A4+	A9+
9000 lm	4000 K	68.3	132	64	337	60.2	150	A6+	A7+	A5+	A5+	A10+
9000 lm	4000 K	71.5	126	48	471	63.9	141	A5+	A6+	A4+	A4+	A9+
11250 lm	2700 K	99.3	113	48	662	90.7	124	A++	A5+	A++	A++	A6+
11250 lm	3000 K	96.4	117	48	641	87.9	128	A3+	A5+	A++	A++	A6+
11250 lm	4000 K	92.9	121	48	617	84.5	133	A3+	A6+	A3+	A3+	A7+
12000 lm	2700 K	100.3	120	64	503	91.2	132	A3+	A6+	A3+	A3+	A7+
12000 lm	3000 K	97.5	123	64	488	88.4	136	A3+	A6+	A3+	A3+	A7+
12000 lm	4000 K	94	128	64	471	85.1	141	A4+	A7+	A4+	A4+	A8+
15000 lm	2700 K	130.8	115	64	662	121	124	A+	A4+	A++	A++	A6+
15000 lm	3000 K	126.7	118	64	641	117.1	128	A++	A5+	A++	A++	A7+
15000 lm	4000 K	122.2	123	64	617	112.7	133	A++	A6+	A++	A++	A7+

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LANG | LUMINAIRE | 2 LIGHT SOURCES

Optic: Type III + Type IV

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
3750 lm	2700 K	30.9	121	48	196	25.7	146	A5+	A6+	A5+	A5+	A9+
3750 lm	3000 K	30.1	125	48	191	25	150	A6+	A6+	A5+	A5+	A9+
3750 lm	4000 K	29.2	128	48	185	24.2	155	A6+	A7+	A6+	A6+	A10+
5000 lm	2700 K	43.6	115	32	422	38	132	A4+	A5+	A4+	A4+	A8+
5000 lm	3000 K	42.5	118	32	410	36.9	136	A5+	A5+	A4+	A4+	A8+
5000 lm	4000 K	41.1	122	32	395	35.6	140	A5+	A6+	A5+	A5+	A9+
5250 lm	2700 K	43.7	120	48	281	37.4	140	A5+	A6+	A5+	A5+	A9+
5250 lm	3000 K	42.6	123	48	273	36.4	144	A5+	A6+	A5+	A5+	A9+
5250 lm	4000 K	41.2	127	48	264	35.1	150	A6+	A7+	A5+	A5+	A10+
6750 lm	2700 K	57.4	118	48	373	50.3	134	A5+	A5+	A4+	A4+	A8+
6750 lm	3000 K	55.8	121	48	363	48.8	138	A5+	A6+	A5+	A5+	A9+
6750 lm	4000 K	54	125	48	350	47.1	143	A6+	A6+	A5+	A5+	A9+
7000 lm	2700 K	64.1	109	32	634	57.9	121	A3+	A4+	A3+	A3+	A7+
7000 lm	3000 K	62.3	112	32	615	56.1	125	A4+	A5+	A3+	A3+	A7+
7000 lm	4000 K	60	117	32	592	53.9	130	A4+	A5+	A4+	A4+	A8+
9000 lm	2700 K	75.5	119	64	373	67	134	A4+	A6+	A3+	A3+	A8+
9000 lm	2700 K	79.2	114	48	525	71.4	126	A4+	A5+	A3+	A3+	A7+
9000 lm	3000 K	73.4	123	64	363	65	138	A5+	A6+	A4+	A4+	A9+
9000 lm	3000 K	76.9	117	48	509	69.2	130	A4+	A5+	A3+	A3+	A8+
9000 lm	4000 K	70.9	127	64	350	62.7	144	A5+	A7+	A4+	A4+	A10+
9000 lm	4000 K	74.4	121	48	490	66.7	135	A5+	A6+	A4+	A4+	A9+
11250 lm	2700 K	103.8	108	48	691	94.9	119	A++	A4+	A+	A+	A5+
11250 lm	3000 K	100.7	112	48	670	91.9	122	A++	A4+	A++	A++	A6+
11250 lm	4000 K	96.8	116	48	645	88.3	127	A++	A5+	A++	A++	A6+
12000 lm	2700 K	104.4	115	64	525	95.2	126	A++	A5+	A++	A++	A6+
12000 lm	3000 K	101.4	118	64	509	92.3	130	A3+	A5+	A++	A++	A7+
12000 lm	4000 K	97.9	123	64	490	88.9	135	A3+	A6+	A3+	A3+	A7+
15000 lm	2700 K	136.5	110	64	691	126.5	119	A+	A4+	A+	A+	A5+
15000 lm	3000 K	132.3	113	64	670	122.5	122	A+	A4+	A+	A+	A6+
15000 lm	4000 K	127.5	118	64	645	117.8	127	A++	A5+	A++	A++	A7+

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LANG | LUMINAIRE | 2 LIGHT SOURCES

Optic: Type IV + Type IV

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
3750 lm	2700 K	29.8	126	48	189	24.7	152	A6+	A6+	A5+	A5+	A9+
3750 lm	3000 K	29	129	48	184	24	156	A6+	A7+	A6+	A6+	A10+
3750 lm	4000 K	28.2	133	48	178	23.3	161	A7+	A7+	A6+	A6+	A11+
5000 lm	2700 K	42.1	119	32	405	36.5	137	A5+	A5+	A4+	A4+	A8+
5000 lm	3000 K	40.9	122	32	393	35.4	141	A5+	A6+	A5+	A5+	A9+
5000 lm	4000 K	39.6	126	32	380	34.1	147	A6+	A7+	A5+	A5+	A10+
5250 lm	2700 K	42.2	124	48	271	36	146	A6+	A6+	A5+	A5+	A9+
5250 lm	3000 K	41.1	128	48	263	35	150	A6+	A7+	A6+	A6+	A10+
5250 lm	4000 K	39.8	132	48	255	33.8	155	A7+	A7+	A6+	A6+	A10+
6750 lm	2700 K	55.1	123	48	359	48.2	140	A5+	A6+	A5+	A5+	A9+
6750 lm	3000 K	53.7	126	48	349	46.8	144	A6+	A6+	A5+	A5+	A9+
6750 lm	4000 K	52	130	48	337	45.2	149	A6+	A7+	A6+	A6+	A10+
7000 lm	2700 K	61.5	114	32	607	55.4	126	A4+	A5+	A4+	A4+	A7+
7000 lm	3000 K	59.6	117	32	589	53.6	131	A5+	A5+	A4+	A4+	A8+
7000 lm	4000 K	57.6	122	32	567	51.6	136	A5+	A6+	A5+	A5+	A9+
9000 lm	2700 K	72.7	124	64	359	64.3	140	A5+	A6+	A4+	A4+	A9+
9000 lm	2700 K	76.1	118	48	503	68.4	132	A4+	A5+	A3+	A3+	A8+
9000 lm	3000 K	70.7	127	64	349	62.4	144	A5+	A7+	A4+	A4+	A10+
9000 lm	3000 K	73.9	122	48	488	66.3	136	A5+	A6+	A4+	A4+	A9+
9000 lm	4000 K	68.3	132	64	337	60.2	150	A6+	A7+	A5+	A5+	A10+
9000 lm	4000 K	71.5	126	48	471	63.9	141	A5+	A6+	A4+	A4+	A9+
11250 lm	2700 K	99.3	113	48	662	90.7	124	A++	A5+	A++	A++	A6+
11250 lm	3000 K	96.4	117	48	641	87.9	128	A3+	A5+	A++	A++	A6+
11250 lm	4000 K	92.9	121	48	617	84.5	133	A3+	A6+	A3+	A3+	A7+
12000 lm	2700 K	100.3	120	64	503	91.2	132	A3+	A6+	A3+	A3+	A7+
12000 lm	3000 K	97.5	123	64	488	88.4	136	A3+	A6+	A3+	A3+	A7+
12000 lm	4000 K	94	128	64	471	85.1	141	A4+	A7+	A4+	A4+	A8+
15000 lm	2700 K	130.8	115	64	662	121	124	A+	A4+	A++	A++	A6+
15000 lm	3000 K	126.7	118	64	641	117.1	128	A++	A5+	A++	A++	A7+
15000 lm	4000 K	122.2	123	64	617	112.7	133	A++	A6+	A++	A++	A7+

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LANG | LUMINAIRE | 2 LIGHT SOURCES

Optic: Type IV + Type IV

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	**Nominal CCT**	**W**	**lm/W**	**n° led**	**mA**	**W**	**lm/W**	**Road**	**Urban**	**Ped**	**Park**	**Art**
3750 lm	2700 K	30.9	121	48	196	25.7	146	A5+	A6+	A5+	A5+	A9+
3750 lm	3000 K	30.1	125	48	191	25	150	A6+	A6+	A5+	A5+	A9+
3750 lm	4000 K	29.2	128	48	185	24.2	155	A6+	A7+	A6+	A6+	A10+
5000 lm	2700 K	43.6	115	32	422	38	132	A4+	A5+	A4+	A4+	A8+
5000 lm	3000 K	42.5	118	32	410	36.9	136	A5+	A5+	A4+	A4+	A8+
5000 lm	4000 K	41.1	122	32	395	35.6	140	A5+	A6+	A5+	A5+	A9+
5250 lm	2700 K	43.7	120	48	281	37.4	140	A5+	A6+	A5+	A5+	A9+
5250 lm	3000 K	42.6	123	48	273	36.4	144	A5+	A6+	A5+	A5+	A9+
5250 lm	4000 K	41.2	127	48	264	35.1	150	A6+	A7+	A5+	A5+	A10+
6750 lm	2700 K	57.4	118	48	373	50.3	134	A5+	A5+	A4+	A4+	A8+
6750 lm	3000 K	55.8	121	48	363	48.8	138	A5+	A6+	A5+	A5+	A9+
6750 lm	4000 K	54	125	48	350	47.1	143	A6+	A6+	A5+	A5+	A9+
7000 lm	2700 K	64.1	109	32	634	57.9	121	A3+	A4+	A3+	A3+	A7+
7000 lm	3000 K	62.3	112	32	615	56.1	125	A4+	A5+	A3+	A3+	A7+
7000 lm	4000 K	60	117	32	592	53.9	130	A4+	A5+	A4+	A4+	A8+
9000 lm	2700 K	75.5	119	64	373	67	134	A4+	A6+	A3+	A3+	A8+
9000 lm	2700 K	79.2	114	48	525	71.4	126	A4+	A5+	A3+	A3+	A7+
9000 lm	3000 K	73.4	123	64	363	65	138	A5+	A6+	A4+	A4+	A9+
9000 lm	3000 K	76.9	117	48	509	69.2	130	A4+	A5+	A3+	A3+	A8+
9000 lm	4000 K	70.9	127	64	350	62.7	144	A5+	A7+	A4+	A4+	A10+
9000 lm	4000 K	74.4	121	48	490	66.7	135	A5+	A6+	A4+	A4+	A9+
11250 lm	2700 K	103.8	108	48	691	94.9	119	A++	A4+	A+	A+	A5+
11250 lm	3000 K	100.7	112	48	670	91.9	122	A++	A4+	A++	A++	A6+
11250 lm	4000 K	96.8	116	48	645	88.3	127	A++	A5+	A++	A++	A6+
12000 lm	2700 K	104.4	115	64	525	95.2	126	A++	A5+	A++	A++	A6+
12000 lm	3000 K	101.4	118	64	509	92.3	130	A3+	A5+	A++	A++	A7+
12000 lm	4000 K	97.9	123	64	490	88.9	135	A3+	A6+	A3+	A3+	A7+
15000 lm	2700 K	136.5	110	64	691	126.5	119	A+	A4+	A+	A+	A5+
15000 lm	3000 K	132.3	113	64	670	122.5	122	A+	A4+	A+	A+	A6+
15000 lm	4000 K	127.5	118	64	645	117.8	127	A++	A5+	A++	A++	A7+

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