

EULUMDAT Photometric Data File Format (LDC)

Line	Designation	Number of characters
1	Company identification/data bank/version/format identification	max. 78
2	Type indicator I _{typ} I _{typ} = 1 point source with symmetry about the vertical axis I _{typ} = 2 linear luminaire I _{typ} = 3 point source with any other symmetry (only linear luminaires, I _{typ} = 2, are being subdivided in longitudinal and transverse directions)	1
3	Symmetry indicator I _{sym} I _{sym} = 0 no symmetry I _{sym} = 1 symmetry about the vertical axis I _{sym} = 2 symmetry to plane C0-C180 I _{sym} = 3 symmetry to plane C90-C270 I _{sym} = 4 symmetry to plane C0-C180 and to plane C90-C270	1
4	Number M _c of C-planes between 0 and 360° (usually 24 for interior, 36 for 2 road lighting luminaires)	
5	Distance D _c between C-planes (D _c = 0 for non-equidistantly available C-planes)	5
6	Number N _g of luminous intensities in each C-plane (usually 19 or 37)	2
7	Distance D _g between luminous intensities per C-plane (D _g = 0 for non-equidistantly available luminous intensities in C-planes)	5
8	Measurement report number	max. 78
9	Luminaire name	max. 78
10	Luminaire number	max. 78
11	File name	8
12	Date/user	max. 78
13	Length/diameter of luminaire (mm)	4
14	Width of luminaire b (mm) (b = 0 for circular luminaire)	4
15	Height of luminaire (mm)	4
16	Length/diameter of luminous area (mm)	4
17	Width of luminous area b ₁ (mm) (b ₁ = 0 for circular luminous area of luminaire)	4
18	Height of luminous area C0-plane (mm)	4
19	Height of luminous area C90-plane (mm)	4
20	Height of luminous area C180-plane (mm)	4
21	Height of luminous area C270-plane (mm)	4
22	Downward flux fraction DFF (%)	4
23	Light output ratio luminaire LORL (%)	4
24	Conversion factor for luminous intensities (depending on measurement)	6
25	Tilt of luminaire during measurement (road lighting luminaires)	6
26	Number n of standard sets of lamps (optional, also extendable on company-specific basis)	4
26a	Number of lamps	n * 4
26b	Type of lamps	n * 24
26c	Total luminous flux of lamps (lm)	n * 12
26d	Color appearance / color temperature of lamps	n * 16
26e	Color rendering group / color rendering index	n * 6
26f	Wattage including ballast (W)	n * 8
27	Direct ratios DR for room indices k = 0.6 ... 5 (for determination of luminaire numbers according to utilization factor method)	10 * 7
28	Angles C (beginning with 0 degrees)	M _c * 6
29	Angles G (beginning with 0 degrees)	N _g * 6
30	Luminous intensity distribution (cd/klm) when I _{sym} = 0, M _{c1} = 1 and M _{c2} = M _c when I _{sym} = 1, M _{c1} = 1 and M _{c2} = 1	(M _{c2} -M _{c1} +1) * N _g * 6

when $l_{sym} = 2$, $Mc_1 = 1$ and $Mc_2 = Mc/2+1$
when $l_{sym} = 3$, $Mc_1 = 3*Mc/4+1$ and $Mc_2 = Mc_1+Mc/2$
when $l_{sym} = 4$, $Mc_1 = 1$ and $Mc_2 = Mc/4+1$

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