

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HPR-LED-F-2X4-DD-V-8-TW-ITL85156.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85156.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE] 09/01/15

[ISSUEDATE]04/15/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-F-2X4-DD-V-8-TW

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 60.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 60.0 WATTS

[OTHER]see www.finelite.com for source file ITL85156. For further details on Finelite family correlation files, go to

[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

[_ABSOLUTELUMENS]5691

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5691
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	60.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	1.80 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2899	2888	2866
55	2611	2603	2584
65	2310	2302	2291
75	1937	1955	1949
85	1518	1536	1518

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2297	2297	2297	2297	2297
2.5	2294	2294	2294	2294	2294
5.0	2283	2284	2283	2284	2284
7.5	2267	2267	2266	2266	2267
10.0	2240	2241	2242	2242	2244
12.5	2206	2208	2211	2210	2209
15.0	2169	2170	2172	2169	2169
17.5	2124	2125	2126	2124	2124
20.0	2076	2074	2075	2072	2072
22.5	2018	2015	2016	2012	2013
25.0	1956	1953	1952	1949	1949
27.5	1889	1884	1885	1881	1880
30.0	1817	1814	1812	1809	1806
32.5	1738	1738	1736	1733	1730
35.0	1662	1657	1655	1651	1648
37.5	1579	1574	1572	1570	1566
40.0	1492	1489	1486	1484	1480
42.5	1405	1402	1399	1397	1389
45.0	1317	1312	1312	1309	1302
47.5	1228	1224	1223	1220	1213
50.0	1141	1136	1133	1133	1126
52.5	1053	1047	1047	1044	1038
55.0	962	960	959	953	952
57.5	876	876	873	868	866
60.0	791	790	788	784	781
62.5	709	710	707	702	707
65.0	627	627	625	621	622
67.5	547	548	546	542	543
70.0	470	471	470	466	468
72.5	394	396	395	394	394
75.0	322	325	325	324	324
77.5	258	258	258	258	258
80.0	196	195	196	196	197
82.5	138	138	139	139	139
85.0	85	85	86	85	85
87.5	39	36	37	36	33
90.0	0	0	0	0	0

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-F-2X4-DD-V-8-TW-ITL85156.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	828.06	N.A.	14.60
0-30	1726.23	N.A.	30.30
0-40	2760.47	N.A.	48.50
0-60	4628.83	N.A.	81.30
0-80	5593.53	N.A.	98.30
0-90	5690.94	N.A.	100.00
10-90	5474.27	N.A.	96.20
20-40	1932.42	N.A.	34.00
20-50	2943.47	N.A.	51.70
40-70	2487.8	N.A.	43.70
60-80	964.71	N.A.	17.00
70-80	345.26	N.A.	6.10
80-90	97.40	N.A.	1.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5690.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	216.66
10-20	611.39
20-30	898.18
30-40	1034.24
40-50	1011.05
50-60	857.30
60-70	619.45
70-80	345.26
80-90	97.40
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

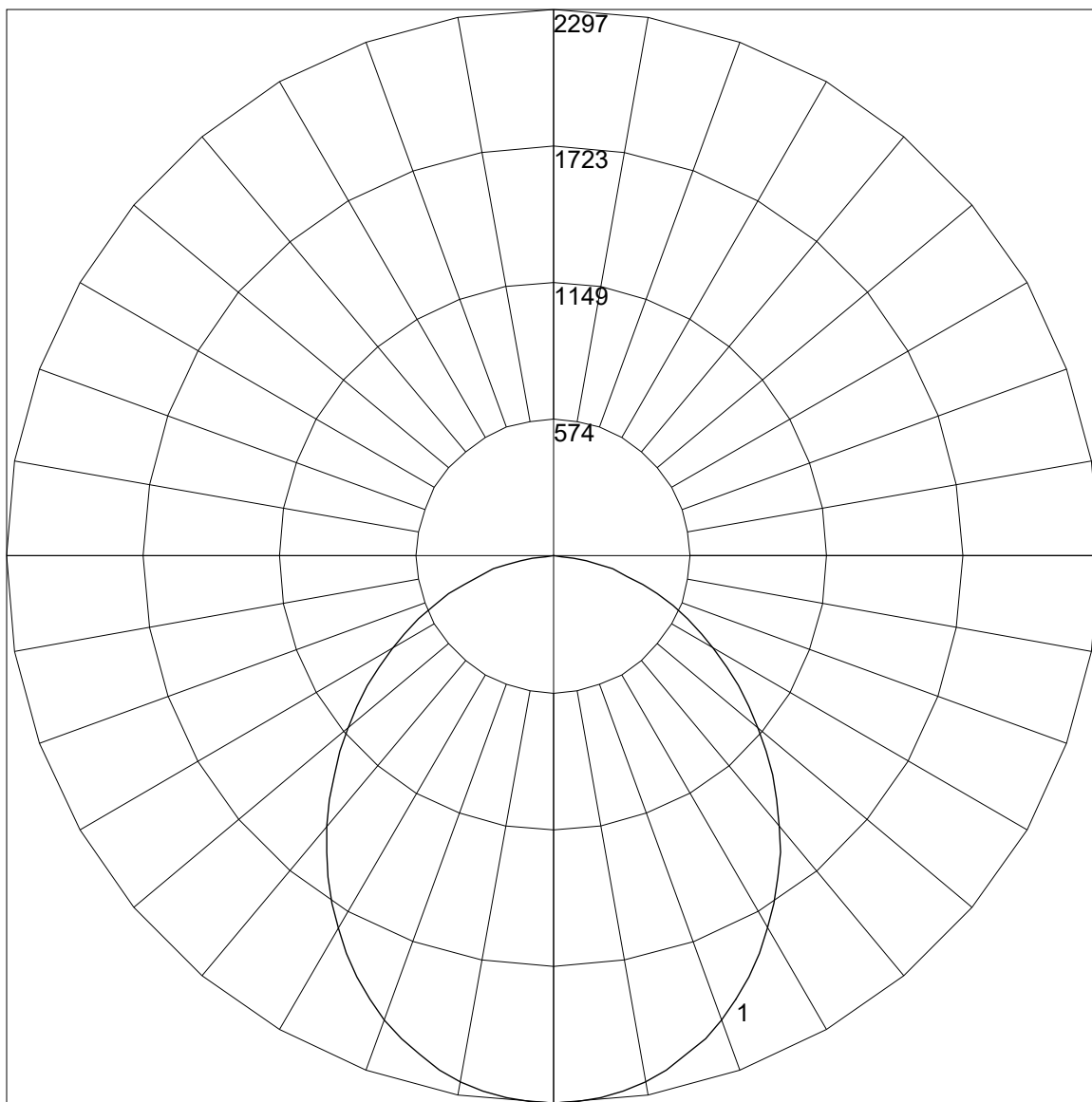
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 2297 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)