

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-1X4-DD-S-8-35-ITL85153.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85153.001 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/26/15
[ISSUEDATE]04/28/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-F-1X4-DD-S-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.3 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.1 WATTS
[ABSOLUTE]LUMENS]2715
[OTHER]see www.finelite.com for source file ITL85153. 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2715
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	28.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.81 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3127	3081	3039
55	2818	2757	2714
65	2488	2417	2360
75	2109	2026	1963
85	1675	1395	1178

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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	1114.556	1114.556	1114.556	1114.556	1114.556
2.5	1113.000	1113.000	1113.778	1113.778	1113.778
5.0	1108.333	1108.333	1108.333	1107.556	1107.556
7.5	1099.000	1099.000	1099.000	1097.444	1098.222
10.0	1088.111	1085.778	1085.778	1085.778	1083.444
12.5	1073.333	1068.667	1070.222	1070.222	1066.333
15.0	1056.222	1048.444	1051.556	1050.778	1045.333
17.5	1033.667	1025.889	1029.000	1027.444	1022.778
20.0	1008.778	1000.222	1002.556	1000.222	995.556
22.5	980.000	973.000	973.778	971.444	966.000
25.0	950.444	941.111	941.889	938.778	933.333
27.5	917.000	907.667	907.667	904.556	899.889
30.0	881.222	872.667	871.889	867.222	863.333
32.5	843.111	834.556	833.778	828.333	824.444
35.0	804.222	795.667	794.111	788.667	784.778
37.5	763.000	756.000	752.889	746.667	743.556
40.0	721.778	714.778	712.444	705.444	701.556
42.5	679.000	673.556	669.667	661.889	661.111
45.0	636.222	630.778	626.889	619.889	618.333
47.5	593.444	589.556	583.333	577.889	575.556
50.0	549.111	546.778	540.556	533.556	532.778
52.5	507.111	503.222	497.778	490.000	490.000
55.0	465.111	461.222	455.000	448.778	448.000
57.5	423.889	419.222	413.778	407.556	406.778
60.0	382.667	378.778	372.556	367.111	366.333
62.5	341.444	339.889	332.889	326.667	326.667
65.0	302.556	299.444	294.000	287.778	287.000
67.5	263.667	261.333	256.667	252.000	249.667
70.0	226.333	224.778	220.111	215.444	213.889
72.5	191.333	189.000	184.333	180.444	179.667
75.0	157.111	154.778	150.889	147.000	146.222
77.5	126.000	122.111	119.000	115.889	114.333
80.0	95.667	92.556	88.667	85.556	84.000
82.5	67.667	64.556	60.667	57.556	56.000
85.0	42.000	39.667	35.000	31.889	29.556
87.5	18.667	15.556	11.667	10.889	10.111
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	400.85	N.A.	14.80
0-30	833.83	N.A.	30.70
0-40	1329.57	N.A.	49.00
0-60	2220.27	N.A.	81.80
0-80	2673.08	N.A.	98.50
0-90	2715.08	N.A.	100.00
10-90	2610.04	N.A.	96.10
20-40	928.72	N.A.	34.20
20-50	1411.83	N.A.	52.00
40-70	1182.73	N.A.	43.60
60-80	452.81	N.A.	16.70
70-80	160.78	N.A.	5.90
80-90	42.00	N.A.	1.50
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	2715.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.05
10-20	295.81
20-30	432.97
30-40	495.75
40-50	483.12
50-60	407.58
60-70	292.03
70-80	160.78
80-90	42.00
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

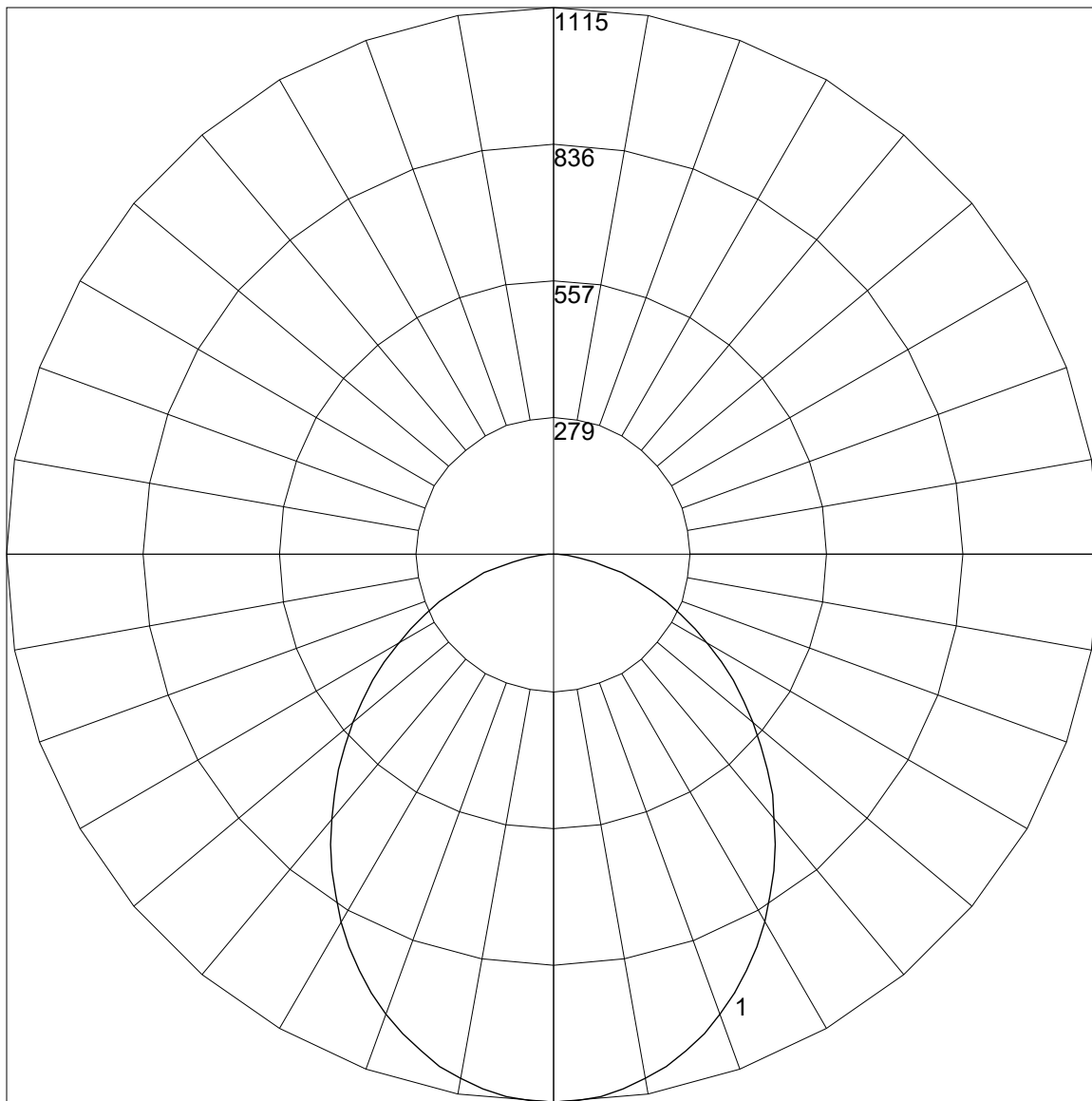
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1114.556 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)