

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-2X2-DD-B-8-35-ITL85154.002.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85154.002 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/27/15
[ISSUE DATE]04/28/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-F-2X2-DD-B-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 37.2 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 38.1 WATTS
[ABSOLUTE LUMENS]3497
[OTHER]see www.finelite.com for source file ITL85154. 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	3497
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	37.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.82 ft
Luminous Width (90-270)	1.81 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3686	3701	3729
55	3319	3338	3369
65	2937	2953	3005
75	2492	2509	2534
85	1951	1951	1951

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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	1411.429	1411.429	1411.429	1411.429	1411.429
2.5	1410.071	1410.071	1410.071	1410.071	1409.393
5.0	1403.964	1403.286	1403.964	1403.286	1403.964
7.5	1392.429	1392.429	1393.107	1393.107	1393.107
10.0	1379.536	1378.857	1378.179	1378.179	1376.821
12.5	1357.821	1357.821	1358.500	1358.500	1358.500
15.0	1332.714	1333.393	1334.071	1334.750	1335.429
17.5	1304.893	1305.571	1306.929	1306.929	1308.286
20.0	1272.321	1273.000	1275.036	1275.714	1276.393
22.5	1235.679	1237.036	1239.071	1240.429	1241.786
25.0	1196.321	1198.357	1200.393	1202.429	1203.107
27.5	1152.893	1155.607	1158.321	1160.357	1161.714
30.0	1108.786	1110.143	1112.857	1115.571	1117.607
32.5	1063.321	1062.643	1064.679	1068.750	1070.107
35.0	1013.786	1013.107	1015.821	1019.893	1021.250
37.5	959.500	961.536	964.250	968.321	970.357
40.0	908.607	908.607	911.321	916.071	917.429
42.5	854.321	854.321	858.393	861.786	863.821
45.0	800.714	800.036	804.107	808.179	810.214
47.5	746.429	745.750	749.821	753.893	755.929
50.0	692.143	692.143	696.214	699.607	701.643
52.5	638.536	637.857	641.929	645.321	648.036
55.0	584.929	584.929	588.321	592.393	593.750
57.5	532.679	532.679	536.750	539.464	543.536
60.0	481.107	481.107	485.179	487.214	491.286
62.5	430.214	430.214	432.929	436.321	439.714
65.0	381.357	380.679	383.393	386.107	390.179
67.5	333.179	332.500	335.214	337.250	339.286
70.0	287.036	286.357	287.714	290.429	292.464
72.5	240.893	241.571	243.607	245.643	247.000
75.0	198.143	198.821	199.500	201.536	201.536
77.5	157.429	158.107	158.786	160.143	160.143
80.0	119.429	120.107	120.786	122.143	121.464
82.5	84.143	84.821	85.500	86.179	86.179
85.0	52.250	52.250	52.250	52.929	52.250
87.5	21.714	21.714	21.714	20.357	19.000
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	509.06	N.A.	14.60
0-30	1061.23	N.A.	30.30
0-40	1696.33	N.A.	48.50
0-60	2844.04	N.A.	81.30
0-80	3437.73	N.A.	98.30
0-90	3497.38	N.A.	100.00
10-90	3364.21	N.A.	96.20
20-40	1187.27	N.A.	33.90
20-50	1807.88	N.A.	51.70
40-70	1528.54	N.A.	43.70
60-80	593.68	N.A.	17.00
70-80	212.86	N.A.	6.10
80-90	59.66	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	3497.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	133.17
10-20	375.89
20-30	552.17
30-40	635.10
40-50	620.61
50-60	527.10
60-70	380.83
70-80	212.86
80-90	59.66
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

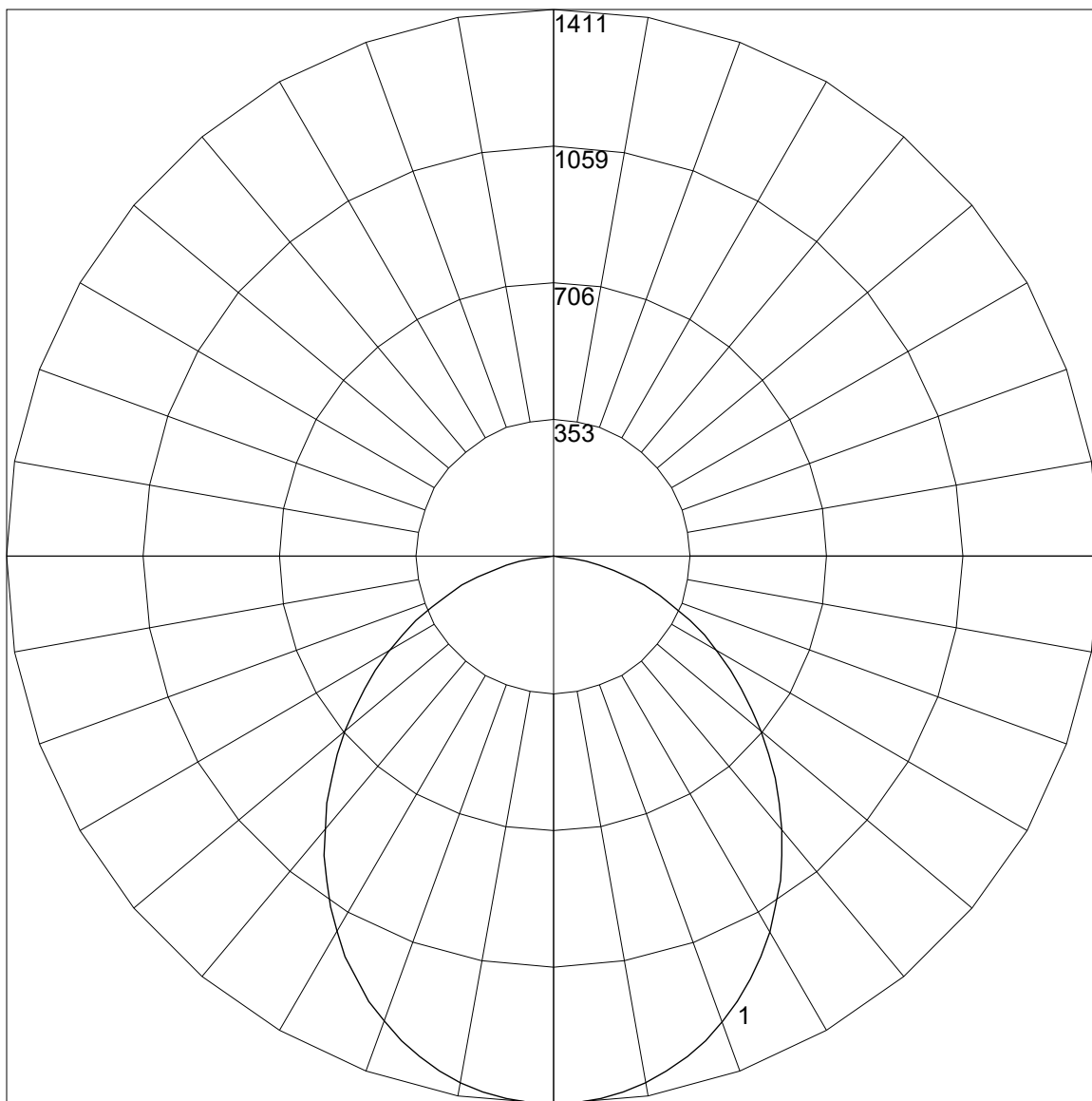
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1411.429 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)