

# 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-H-8-35-ITL85154.003.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL85154.003 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-H-8-35  
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 43.0 WATTS  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 43.5 WATTS  
[ABSOLUTE LUMENS]3958  
[OTHER]see [www.finelite.com](http://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](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	3958
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	43
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	4171	4188	4220
55	3756	3778	3813
65	3323	3341	3400
75	2820	2839	2868
85	2208	2208	2208

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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	1597.143	1597.143	1597.143	1597.143	1597.143
2.5	1595.607	1595.607	1595.607	1595.607	1594.839
5.0	1588.696	1587.928	1588.696	1587.928	1588.696
7.5	1575.643	1575.643	1576.411	1576.411	1576.411
10.0	1561.053	1560.286	1559.518	1559.518	1557.982
12.5	1536.482	1536.482	1537.250	1537.250	1537.250
15.0	1508.071	1508.839	1509.607	1510.375	1511.143
17.5	1476.589	1477.357	1478.893	1478.893	1480.428
20.0	1439.732	1440.500	1442.803	1443.571	1444.339
22.5	1398.268	1399.803	1402.107	1403.643	1405.178
25.0	1353.732	1356.036	1358.339	1360.643	1361.411
27.5	1304.589	1307.661	1310.732	1313.036	1314.571
30.0	1254.678	1256.214	1259.286	1262.357	1264.661
32.5	1203.232	1202.464	1204.768	1209.375	1210.911
35.0	1147.178	1146.411	1149.482	1154.089	1155.625
37.5	1085.750	1088.053	1091.125	1095.732	1098.036
40.0	1028.161	1028.161	1031.232	1036.607	1038.143
42.5	966.732	966.732	971.339	975.178	977.482
45.0	906.071	905.303	909.911	914.518	916.821
47.5	844.643	843.875	848.482	853.089	855.393
50.0	783.214	783.214	787.821	791.661	793.964
52.5	722.554	721.786	726.393	730.232	733.304
55.0	661.893	661.893	665.732	670.339	671.875
57.5	602.768	602.768	607.375	610.446	615.054
60.0	544.411	544.411	549.018	551.321	555.929
62.5	486.821	486.821	489.893	493.732	497.571
65.0	431.536	430.768	433.839	436.911	441.518
67.5	377.018	376.250	379.321	381.625	383.929
70.0	324.804	324.036	325.571	328.643	330.946
72.5	272.589	273.357	275.661	277.964	279.500
75.0	224.214	224.982	225.750	228.054	228.054
77.5	178.143	178.911	179.679	181.214	181.214
80.0	135.143	135.911	136.679	138.214	137.446
82.5	95.214	95.982	96.750	97.518	97.518
85.0	59.125	59.125	59.125	59.893	59.125
87.5	24.571	24.571	24.571	23.036	21.500
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	576.04	N.A.	14.60
0-30	1200.86	N.A.	30.30
0-40	1919.53	N.A.	48.50
0-60	3218.26	N.A.	81.30
0-80	3890.06	N.A.	98.30
0-90	3957.56	N.A.	100.00
10-90	3806.87	N.A.	96.20
20-40	1343.49	N.A.	33.90
20-50	2045.76	N.A.	51.70
40-70	1729.66	N.A.	43.70
60-80	671.80	N.A.	17.00
70-80	240.87	N.A.	6.10
80-90	67.50	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	3957.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	150.69
10-20	425.35
20-30	624.82
30-40	718.67
40-50	702.27
50-60	596.46
60-70	430.93
70-80	240.87
80-90	67.50
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

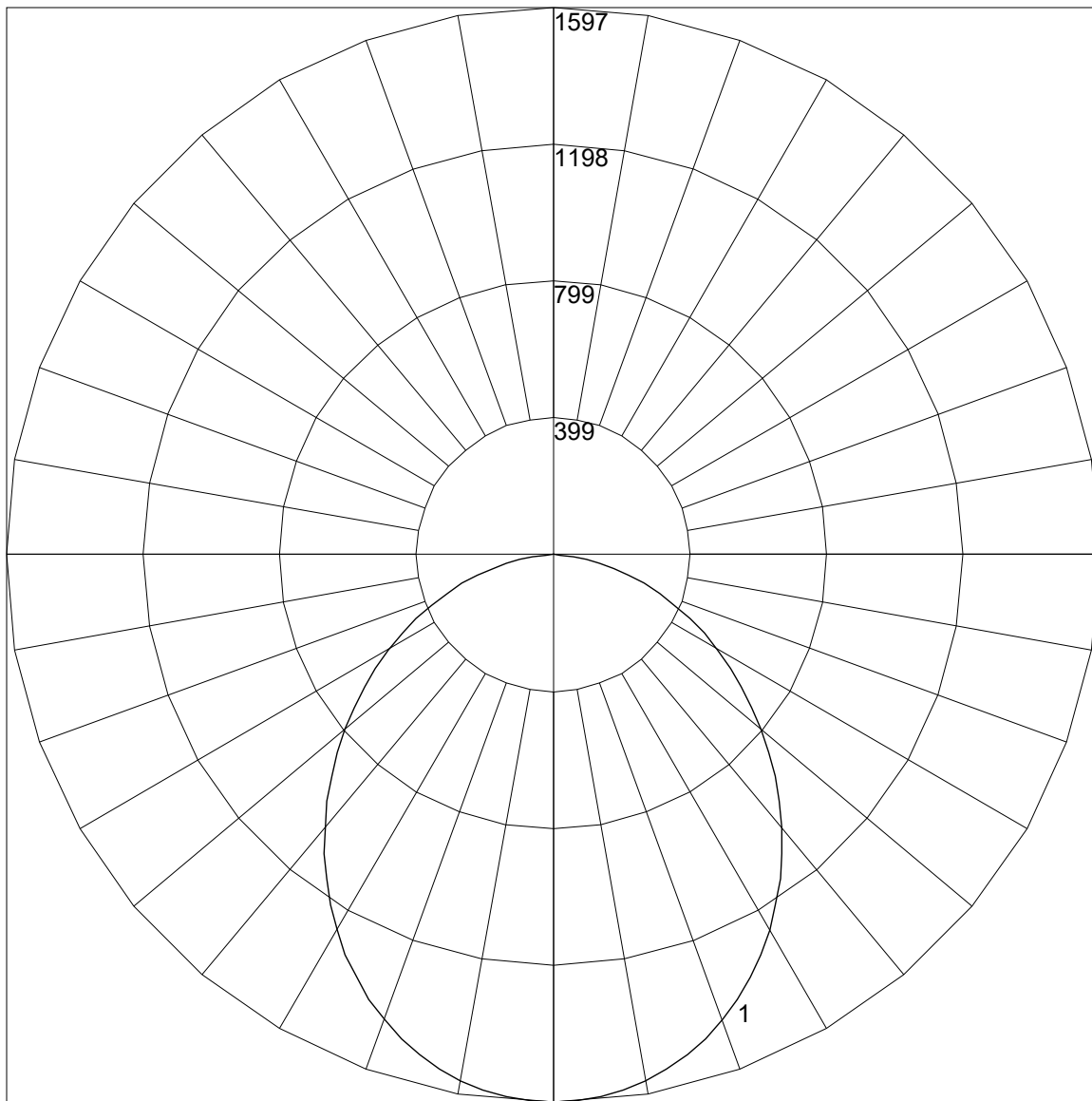
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	47	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 = 1597.143 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)