

# 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-EP-A-2X2-DCO-H-8-35-ITL85144.007.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL85144.007 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]08/19/15  
[ISSUE DATE]04/27/16  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE HPR-LED-EP-A-2X2-DCO-H-8-35  
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 43.0 WATTS  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 43.5 WATTS  
[ABSOLUTE LUMENS]4508  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85144. 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	4508
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	43
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
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	4814	4835	4899
55	4566	4584	4632
65	4210	4187	4246
75	3573	3505	3553
85	2409	2237	2294

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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	1650.125	1650.125	1650.125	1650.125	1650.125
2.5	1647.821	1648.589	1648.589	1648.589	1648.589
5.0	1642.446	1642.446	1642.446	1642.446	1642.446
7.5	1631.696	1632.464	1631.696	1632.464	1632.464
10.0	1619.411	1619.411	1617.875	1617.107	1617.107
12.5	1598.678	1598.678	1597.911	1598.678	1599.446
15.0	1574.875	1575.643	1575.643	1577.178	1577.178
17.5	1548.000	1548.000	1548.000	1551.071	1551.839
20.0	1516.518	1516.518	1518.821	1521.125	1522.661
22.5	1480.428	1481.964	1484.268	1487.339	1489.643
25.0	1442.803	1443.571	1445.875	1451.250	1454.321
27.5	1403.643	1402.107	1405.946	1412.089	1412.857
30.0	1358.339	1358.339	1361.411	1369.089	1371.393
32.5	1313.036	1311.500	1315.339	1323.018	1326.857
35.0	1263.125	1261.589	1266.196	1276.178	1278.482
37.5	1211.678	1210.143	1216.286	1225.500	1227.803
40.0	1157.928	1157.161	1163.303	1172.518	1175.589
42.5	1102.643	1101.875	1108.018	1116.464	1121.071
45.0	1045.821	1045.053	1050.428	1059.643	1064.250
47.5	987.464	986.696	992.071	1001.286	1005.893
50.0	928.339	926.803	932.178	941.393	944.464
52.5	867.678	865.375	870.750	879.196	881.500
55.0	804.714	803.179	807.786	813.928	816.232
57.5	741.750	739.446	744.054	749.429	750.964
60.0	677.250	674.946	678.018	682.625	684.161
62.5	612.750	609.679	611.214	615.054	615.821
65.0	546.714	543.643	543.643	547.482	551.321
67.5	479.911	478.375	475.304	479.143	482.982
70.0	413.875	413.107	410.036	411.571	414.643
72.5	348.607	346.304	343.232	344.768	347.071
75.0	284.107	281.804	278.732	280.268	282.571
77.5	221.911	219.607	215.768	218.071	220.375
80.0	164.321	162.018	158.179	159.714	159.714
82.5	111.339	109.036	105.964	107.500	108.268
85.0	64.500	62.964	59.893	60.661	61.429
87.5	25.339	23.804	22.268	21.500	22.268
90.0	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HPR-LED-EP-A-2X2-DCO-H-8-35-ITL85144.007.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	600.51	N.A.	13.30
0-30	1267.27	N.A.	28.10
0-40	2060.81	N.A.	45.70
0-60	3595.56	N.A.	79.80
0-80	4433.83	N.A.	98.40
0-90	4508.02	N.A.	100.00
10-90	4352.01	N.A.	96.50
20-40	1460.3	N.A.	32.40
20-50	2272.16	N.A.	50.40
40-70	2074.72	N.A.	46.00
60-80	838.27	N.A.	18.60
70-80	298.30	N.A.	6.60
80-90	74.19	N.A.	1.60
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	4508.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	156.00
10-20	444.50
20-30	666.77
30-40	793.53
40-50	811.86
50-60	722.89
60-70	539.97
70-80	298.30
80-90	74.19
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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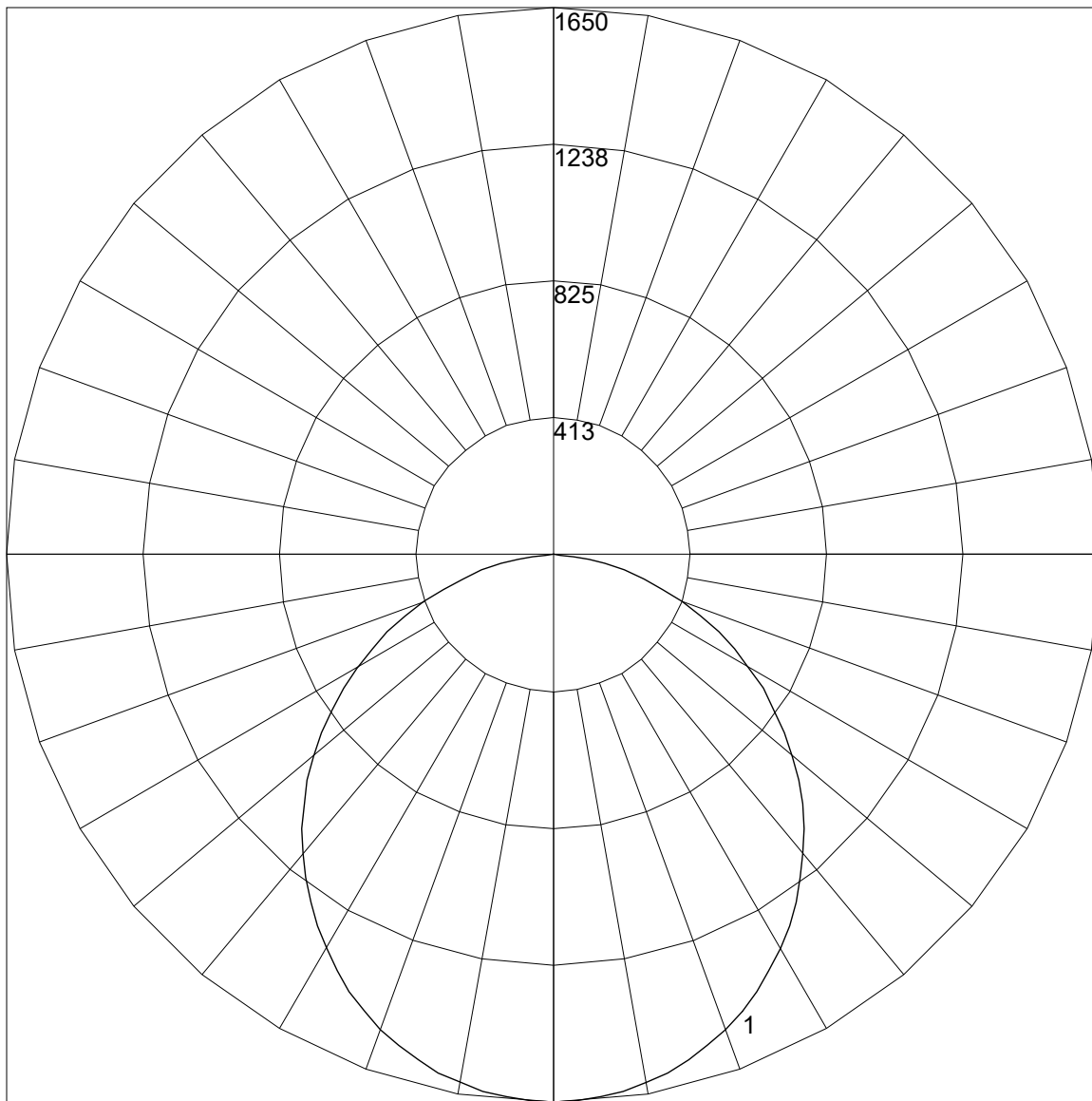
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	80	70	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

POLAR GRAPH



Maximum Candela = 1650.125 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)