

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-F-2X4-DCO-S-8-35-ITL85146.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85146.001 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/20/15
[ISSUEDATE]04/28/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-EP-F-2X4-DCO-S-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 27.0 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 28.0 WATTS
[ABSOLUTE]LUMENS]3483
[OTHER]see www.finelite.com for source file ITL85146. 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	3483
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	27
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)	3.83 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	1783	1780	1782
55	1692	1685	1672
65	1568	1538	1526
75	1335	1283	1261
85	883	835	806

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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	1282.703	1282.703	1282.703	1282.703	1282.703
2.5	1281.622	1281.622	1281.081	1281.081	1281.081
5.0	1276.757	1276.757	1276.216	1276.216	1276.216
7.5	1268.649	1268.108	1267.568	1267.568	1267.568
10.0	1255.676	1256.757	1256.216	1256.216	1257.297
12.5	1240.000	1240.540	1241.622	1241.622	1241.081
15.0	1222.162	1222.162	1223.243	1223.243	1222.703
17.5	1201.081	1201.622	1201.622	1201.622	1201.622
20.0	1176.757	1177.297	1177.297	1177.297	1177.297
22.5	1150.270	1150.270	1150.270	1150.811	1150.270
25.0	1120.540	1120.540	1120.540	1121.081	1120.540
27.5	1088.649	1088.649	1088.649	1089.189	1088.649
30.0	1054.595	1054.054	1054.054	1055.135	1054.054
32.5	1018.378	1018.919	1018.919	1019.459	1019.459
35.0	980.540	980.540	981.622	981.081	981.081
37.5	941.081	941.081	941.622	941.622	943.243
40.0	900.541	901.081	900.541	900.541	902.162
42.5	858.378	857.838	857.297	857.297	858.378
45.0	814.595	814.054	812.973	812.973	814.054
47.5	767.568	768.649	766.486	765.946	768.649
50.0	722.162	721.622	720.541	720.000	722.703
52.5	675.135	672.973	672.432	671.892	674.054
55.0	627.027	625.946	624.324	621.622	619.459
57.5	577.297	576.216	575.135	571.892	569.189
60.0	527.027	525.405	523.243	520.000	517.838
62.5	478.378	475.135	471.892	468.108	465.946
65.0	428.108	425.946	420.000	416.216	416.757
67.5	376.216	374.054	367.568	363.784	363.784
70.0	324.324	322.162	316.216	311.892	310.811
72.5	273.514	271.351	264.865	261.081	260.000
75.0	223.243	220.541	214.595	211.351	210.811
77.5	174.595	171.892	167.027	164.324	163.243
80.0	129.189	126.486	122.703	120.541	120.000
82.5	87.027	84.865	82.703	81.081	80.541
85.0	49.730	48.649	47.027	45.946	45.405
87.5	18.378	18.919	17.297	16.216	16.216
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-EP-F-2X4-DCO-S-8-35-ITL85146.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	466.04	N.A.	13.40
0-30	982.28	N.A.	28.20
0-40	1595.93	N.A.	45.80
0-60	2780.6	N.A.	79.80
0-80	3426.02	N.A.	98.40
0-90	3483.03	N.A.	100.00
10-90	3361.84	N.A.	96.50
20-40	1129.89	N.A.	32.40
20-50	1757.14	N.A.	50.40
40-70	1600.7	N.A.	46.00
60-80	645.42	N.A.	18.50
70-80	229.40	N.A.	6.60
80-90	57.01	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	3483.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	121.19
10-20	344.85
20-30	516.24
30-40	613.64
40-50	627.26
50-60	557.42
60-70	416.02
70-80	229.40
80-90	57.01
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

IES INDOOR REPORT

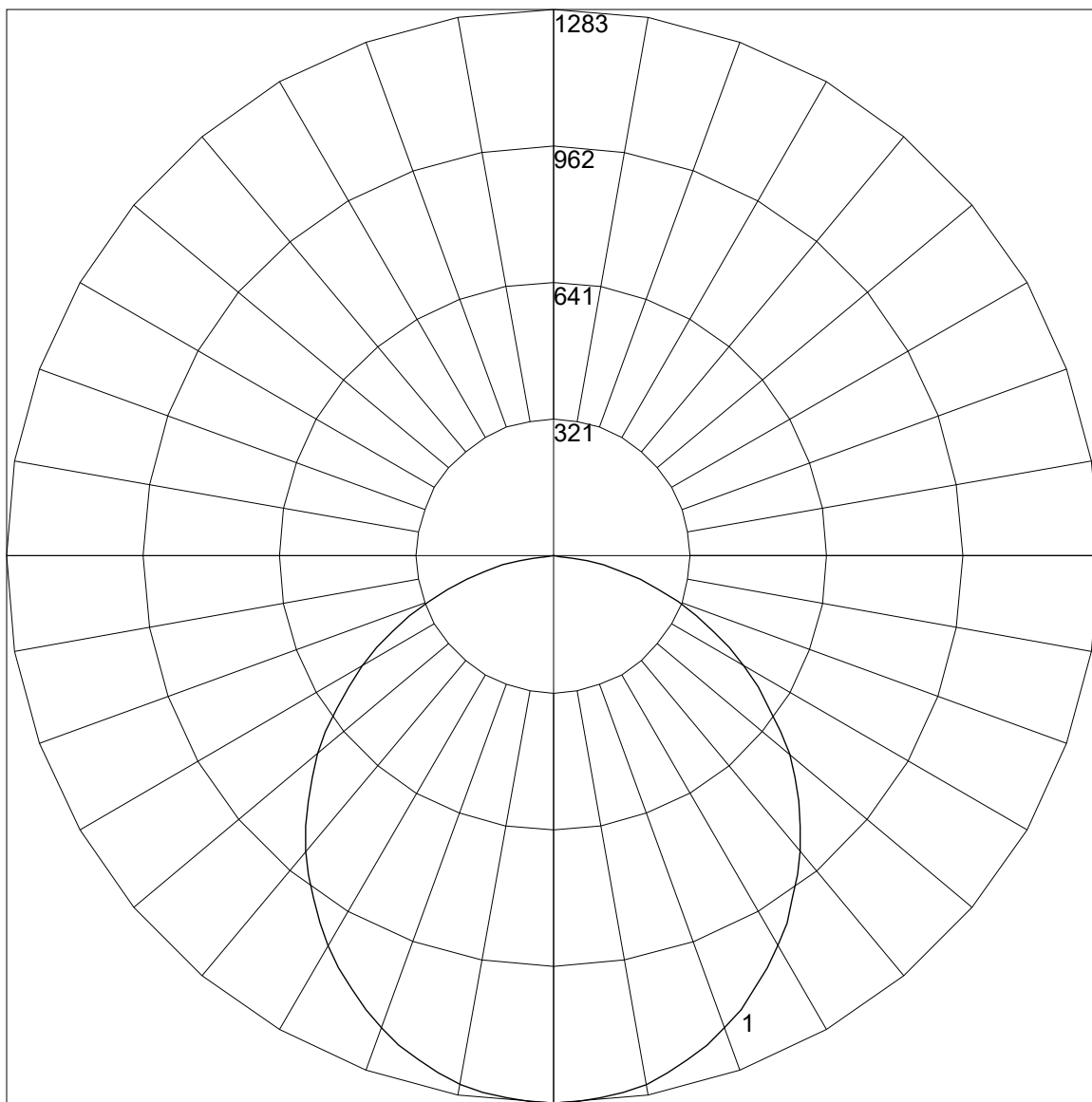
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	92	94	91	89	90	88	86	84
2	99	91	84	79	96	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	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	64	51	43	37	49	42	37	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	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1282.703 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)