

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-WAV-2X2-H-8-3500K-ITL85836.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85836.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]10/15/15
[ISSUEDATE]04/28/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-WAV-2X2-DCO-H-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 42.9 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 43.4 WATTS
[ABSOLUTE]LUMENS]5048
[OTHER]see www.finelite.com for source file ITL85836. 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	5048
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	42.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
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	5249	5358	5468
55	4897	5028	5163
65	4482	4619	4802
75	3766	4065	4355
85	2466	3097	3298

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1886.625	1886.625	1886.625	1886.625	1886.625
2.5	1885.089	1885.857	1885.857	1885.857	1885.857
5.0	1877.411	1878.178	1878.178	1878.946	1879.714
7.5	1864.357	1865.125	1865.893	1867.428	1868.196
10.0	1847.464	1848.232	1849.000	1849.000	1849.768
12.5	1824.428	1823.661	1825.964	1826.732	1828.268
15.0	1792.178	1795.250	1797.553	1802.161	1802.928
17.5	1756.857	1759.928	1764.536	1769.911	1770.678
20.0	1719.232	1720.768	1727.678	1733.053	1736.893
22.5	1674.696	1677.000	1686.982	1693.125	1697.732
25.0	1627.857	1629.393	1640.143	1647.821	1654.732
27.5	1574.875	1579.482	1591.000	1600.214	1607.125
30.0	1521.893	1524.196	1538.018	1548.000	1554.911
32.5	1462.000	1467.375	1481.196	1492.714	1499.625
35.0	1401.339	1407.482	1422.071	1433.589	1442.803
37.5	1339.143	1345.286	1361.411	1373.696	1382.911
40.0	1274.643	1280.786	1297.678	1309.964	1319.946
42.5	1207.839	1214.750	1231.643	1246.232	1254.678
45.0	1140.268	1147.178	1164.071	1179.428	1187.875
47.5	1071.928	1078.839	1096.500	1109.553	1120.303
50.0	1003.589	1009.732	1028.161	1041.982	1051.964
52.5	933.714	939.857	958.286	972.107	981.321
55.0	863.071	869.982	886.107	901.464	909.911
57.5	791.661	799.339	814.696	828.518	838.500
60.0	724.089	726.393	742.518	756.339	766.321
62.5	649.607	656.518	671.875	686.464	694.911
65.0	582.036	585.875	599.696	614.286	623.500
67.5	510.625	514.464	528.286	545.179	552.089
70.0	436.143	442.286	458.411	475.304	482.214
72.5	367.036	373.179	390.071	404.661	413.875
75.0	299.464	304.839	323.268	337.089	346.304
77.5	233.429	241.107	257.232	272.589	279.500
80.0	171.232	179.679	195.036	208.857	214.232
82.5	114.411	122.857	136.679	146.661	149.732
85.0	66.036	72.179	82.929	86.000	88.304
87.5	26.875	29.946	33.018	31.482	31.482
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	685.17	N.A.	13.60
0-30	1440.33	N.A.	28.50
0-40	2329.26	N.A.	46.10
0-60	4019.03	N.A.	79.60
0-80	4954.99	N.A.	98.20
0-90	5048.03	N.A.	100.00
10-90	4869.67	N.A.	96.50
20-40	1644.09	N.A.	32.60
20-50	2541.83	N.A.	50.40
40-70	2284.28	N.A.	45.30
60-80	935.96	N.A.	18.50
70-80	341.45	N.A.	6.80
80-90	93.04	N.A.	1.80
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	5048.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	178.36
10-20	506.81
20-30	755.15
30-40	888.94
40-50	897.74
50-60	792.03
60-70	594.51
70-80	341.45
80-90	93.04
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

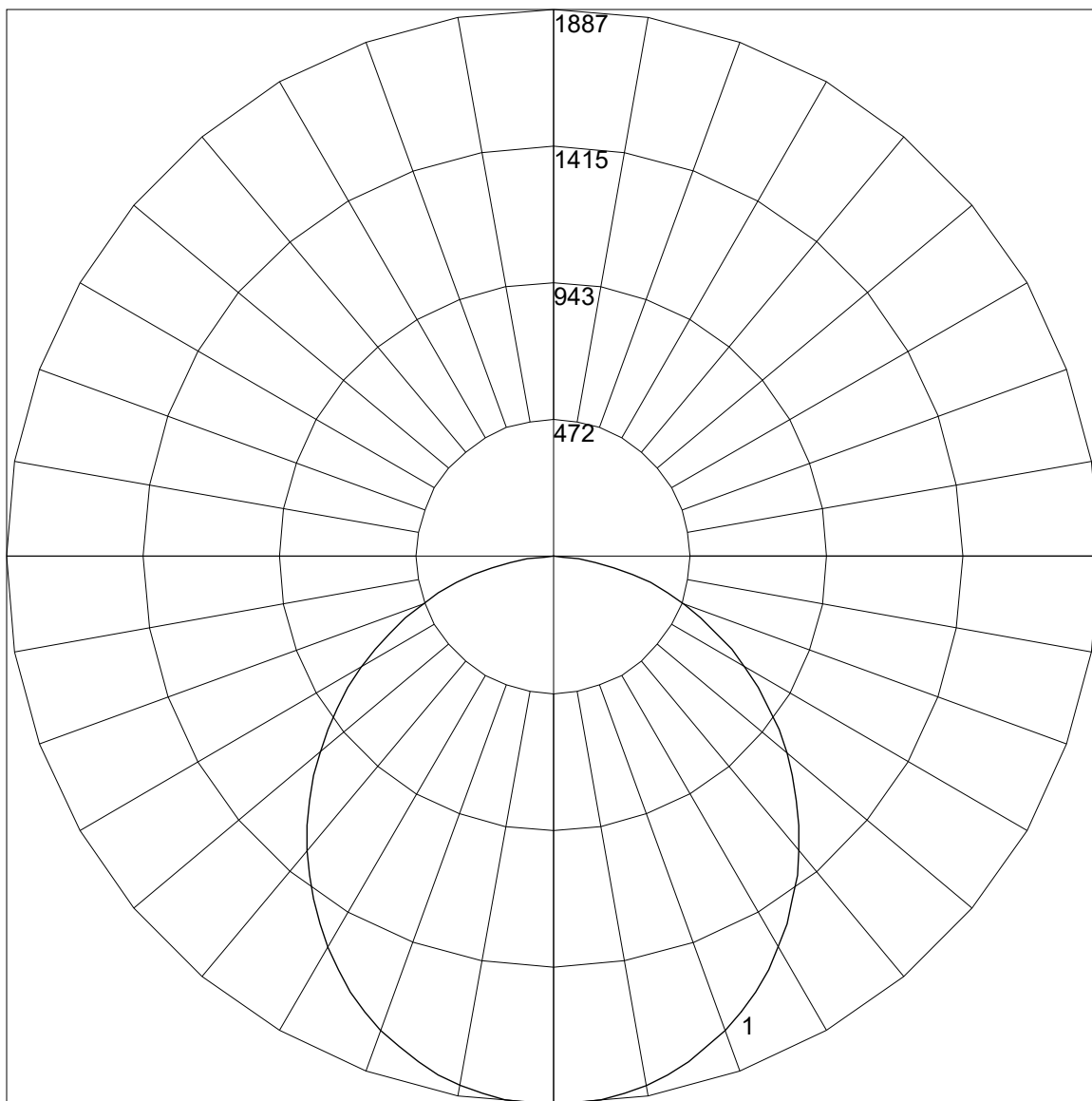
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	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	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	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	55	43	35	30	42	35	30	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 = 1886.625 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)