

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-2X4-H-8-35-ITL85837.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85837.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]10/16/15
[ISSUE DATE]04/28/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-WAV-2X4-DCO-H-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.6 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.4 WATTS
[ABSOLUTE LUMENS]5486
[OTHER]see www.finelite.com for source file ITL85837. 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	5486
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	40.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.34
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	2747	2774	2794
55	2574	2603	2616
65	2345	2396	2436
75	1968	2093	2200
85	1227	1695	1902

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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	2044.147	2044.147	2044.147	2044.147	2044.147
2.5	2041.819	2041.042	2041.819	2041.042	2041.042
5.0	2034.058	2033.282	2033.282	2033.282	2033.282
7.5	2020.089	2020.089	2020.089	2019.313	2020.089
10.0	1998.359	1999.135	2001.463	2003.015	2002.239
12.5	1970.421	1972.749	1976.629	1979.734	1978.181
15.0	1940.930	1941.707	1947.915	1950.243	1948.691
17.5	1906.784	1906.008	1912.216	1915.320	1914.544
20.0	1865.653	1864.876	1871.861	1875.741	1874.189
22.5	1819.865	1819.089	1826.849	1831.506	1829.954
25.0	1770.197	1770.197	1777.958	1783.390	1781.838
27.5	1716.649	1715.097	1725.185	1729.842	1728.290
30.0	1659.220	1659.996	1668.533	1672.413	1675.517
32.5	1598.687	1598.687	1608.000	1614.208	1615.761
35.0	1534.274	1535.050	1544.363	1550.571	1552.124
37.5	1467.533	1469.085	1479.174	1484.606	1486.934
40.0	1398.463	1400.015	1410.104	1415.537	1417.865
42.5	1327.842	1330.170	1339.483	1346.467	1348.795
45.0	1254.892	1257.996	1267.309	1274.293	1276.622
47.5	1180.390	1184.270	1194.359	1199.792	1203.672
50.0	1105.888	1108.216	1119.857	1125.290	1125.290
52.5	1030.610	1031.386	1043.803	1049.236	1050.012
55.0	953.780	956.108	964.645	971.629	969.301
57.5	876.950	880.830	889.367	893.247	899.456
60.0	797.792	801.672	810.208	814.865	821.073
62.5	719.409	724.066	732.602	737.259	742.691
65.0	640.251	645.683	654.220	659.653	665.085
67.5	561.869	566.525	575.838	582.822	588.255
70.0	483.486	488.919	499.784	506.768	513.753
72.5	405.104	411.313	422.954	432.266	439.251
75.0	329.050	335.259	350.004	360.093	367.853
77.5	256.100	263.085	279.382	291.023	298.008
80.0	187.807	195.568	213.417	225.058	232.042
82.5	124.946	133.483	152.108	164.525	168.405
85.0	69.069	79.158	95.456	104.768	107.097
87.5	25.610	32.595	44.236	48.116	48.892
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	741.74	N.A.	13.50
0-30	1559.93	N.A.	28.40
0-40	2525.07	N.A.	46.00
0-60	4363.91	N.A.	79.60
0-80	5380.35	N.A.	98.10
0-90	5485.66	N.A.	100.00
10-90	5292.6	N.A.	96.50
20-40	1783.32	N.A.	32.50
20-50	2760.00	N.A.	50.30
40-70	2485.33	N.A.	45.30
60-80	1016.45	N.A.	18.50
70-80	369.95	N.A.	6.70
80-90	105.31	N.A.	1.90
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	5485.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

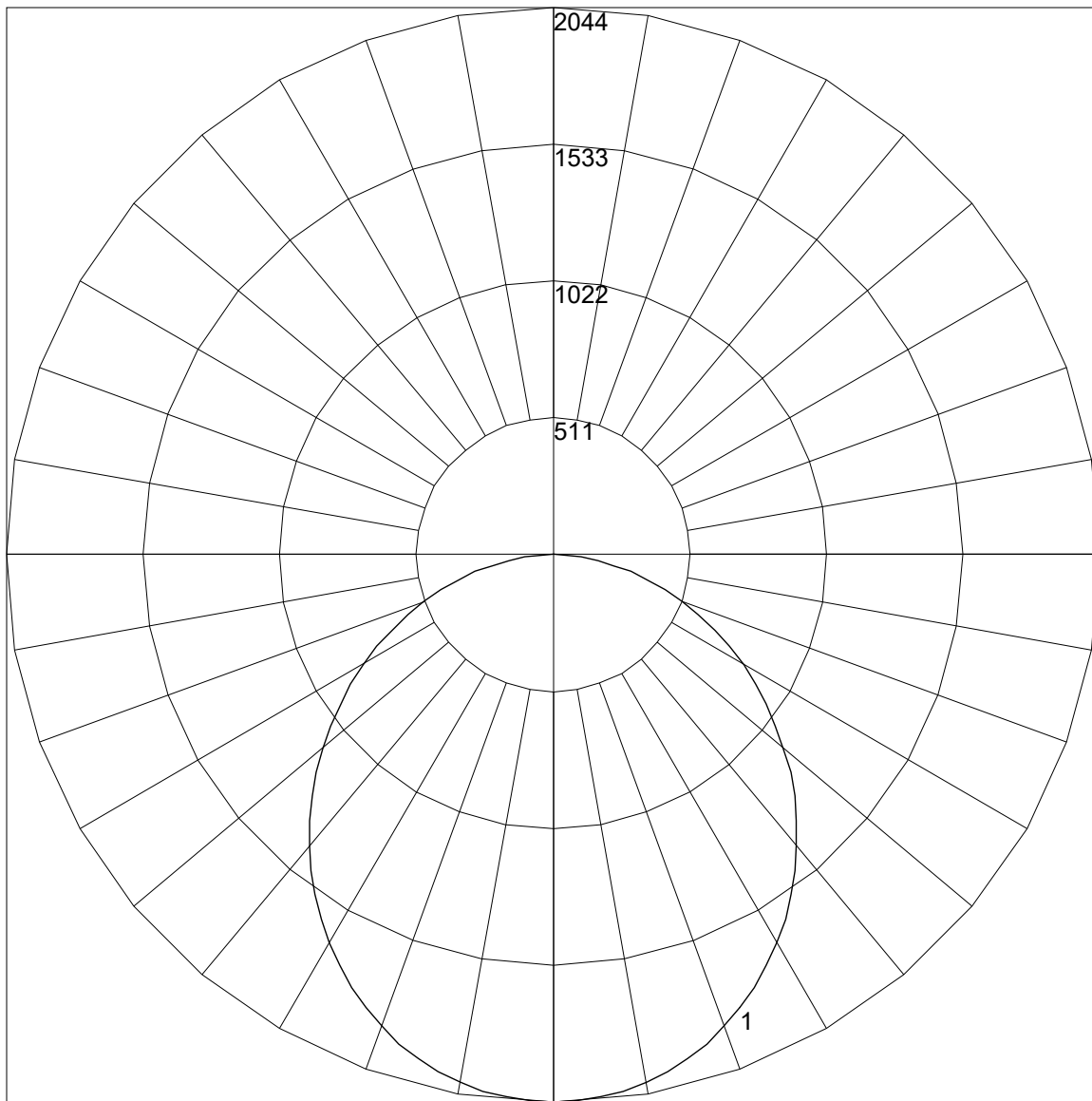
Zone	Lumens
0-10	193.07
10-20	548.68
20-30	818.18
30-40	965.14
40-50	976.67
50-60	862.16
60-70	646.50
70-80	369.95
80-90	105.31
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	80	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	41	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	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 = 2044.147 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)