

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-837-XXIC-ITL85837.203.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85837.203 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]10/16/15

[ISSUEDATE]05/21/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-WAV-2X4-H-837-XXIC

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 38.1 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 38.8 WATTS

[ABSOLUTE]LUMENS]4718

[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	4718
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	38.1
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	2362	2386	2403
55	2213	2239	2249
65	2017	2061	2095
75	1692	1800	1892
85	1055	1458	1636

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1757.966	1757.966	1757.966	1757.966	1757.966
2.5	1755.964	1755.296	1755.964	1755.296	1755.296
5.0	1749.290	1748.622	1748.622	1748.622	1748.622
7.5	1737.276	1737.276	1737.276	1736.609	1737.276
10.0	1718.589	1719.256	1721.258	1722.593	1721.926
12.5	1694.562	1696.564	1699.901	1702.571	1701.236
15.0	1669.200	1669.868	1675.207	1677.209	1675.874
17.5	1639.834	1639.167	1644.506	1647.176	1646.508
20.0	1604.461	1603.794	1609.800	1613.138	1611.803
22.5	1565.084	1564.416	1571.090	1575.095	1573.760
25.0	1522.369	1522.369	1529.043	1533.715	1532.381
27.5	1476.318	1474.983	1483.659	1487.664	1486.329
30.0	1426.929	1427.597	1434.938	1438.275	1440.945
32.5	1374.871	1374.871	1382.880	1388.219	1389.554
35.0	1319.476	1320.143	1328.152	1333.491	1334.826
37.5	1262.078	1263.413	1272.089	1276.761	1278.764
40.0	1202.678	1204.013	1212.690	1217.362	1219.364
42.5	1141.944	1143.946	1151.955	1157.962	1159.964
45.0	1079.207	1081.877	1089.886	1095.892	1097.895
47.5	1015.135	1018.472	1027.149	1031.821	1035.158
50.0	951.064	953.066	963.077	967.749	967.749
52.5	886.325	886.992	897.671	902.343	903.010
55.0	820.251	822.253	829.595	835.601	833.599
57.5	754.177	757.514	764.855	768.192	773.532
60.0	686.101	689.438	696.779	700.784	706.123
62.5	618.692	622.696	630.038	634.042	638.714
65.0	550.616	555.288	562.629	567.301	571.973
67.5	483.207	487.212	495.221	501.227	505.899
70.0	415.798	420.470	429.814	435.821	441.827
72.5	348.390	353.729	363.740	371.749	377.756
75.0	282.983	288.322	301.003	309.680	316.354
77.5	220.246	226.253	240.269	250.280	256.287
80.0	161.514	168.188	183.539	193.550	199.557
82.5	107.454	114.795	130.813	141.492	144.829
85.0	59.400	68.076	82.092	90.101	92.103
87.5	22.025	28.031	38.043	41.380	42.047
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	637.90	N.A.	13.50
0-30	1341.54	N.A.	28.40
0-40	2171.56	N.A.	46.00
0-60	3752.96	N.A.	79.60
0-80	4627.11	N.A.	98.10
0-90	4717.67	N.A.	100.00
10-90	4551.63	N.A.	96.50
20-40	1533.66	N.A.	32.50
20-50	2373.6	N.A.	50.30
40-70	2137.39	N.A.	45.30
60-80	874.15	N.A.	18.50
70-80	318.16	N.A.	6.70
80-90	90.57	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	4717.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	166.04
10-20	471.86
20-30	703.64
30-40	830.02
40-50	839.94
50-60	741.46
60-70	555.99
70-80	318.16
80-90	90.57
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

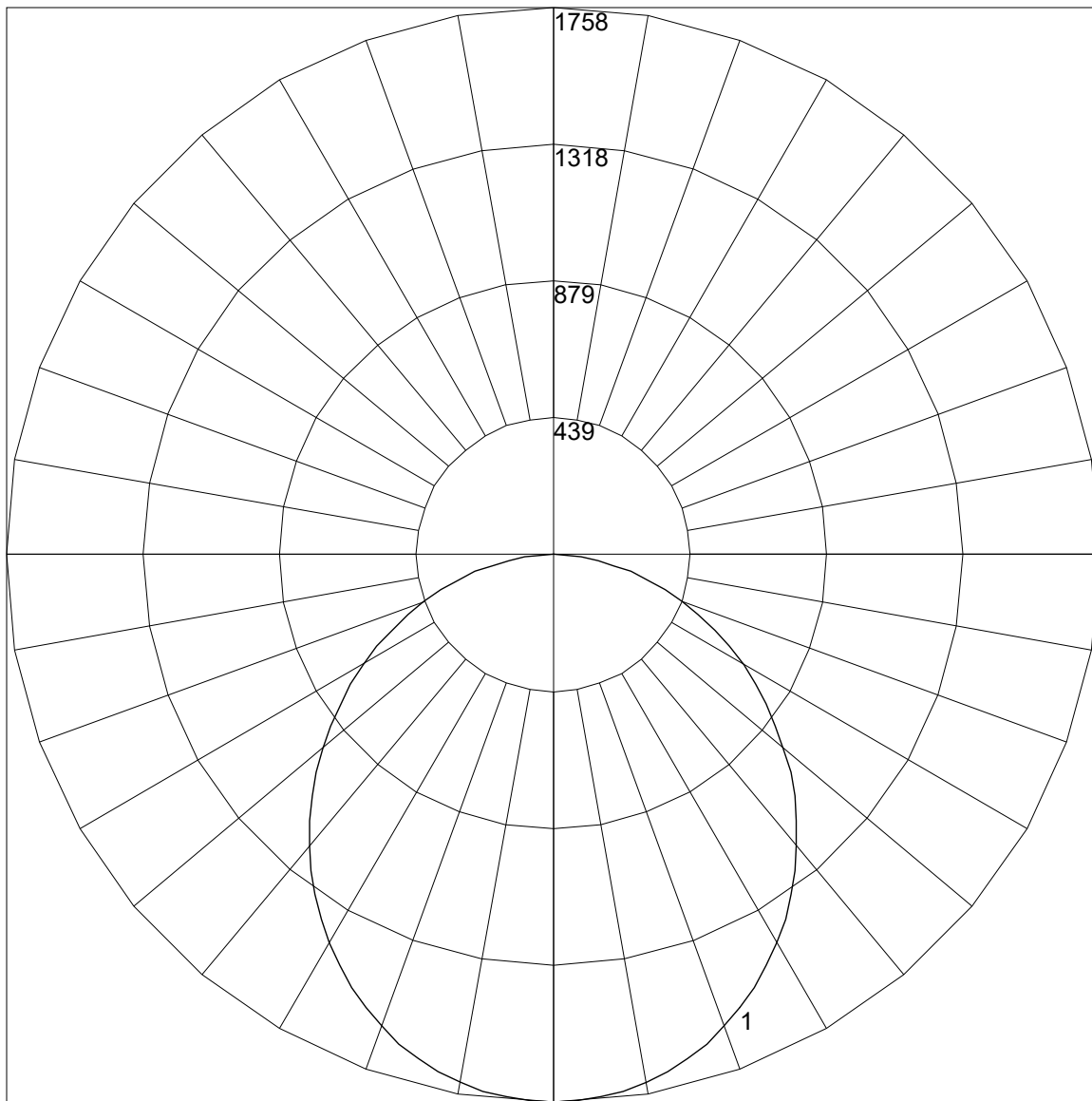
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1757.966 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)