

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-F-1X4-DCO-V-837-XXIC-ITL85141.203.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85141.203 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/18/15

[ISSUEDATE]04/28/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-F-1X4-DCO-V-837-XXIC

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 55.1 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 53.0 WATTS

[ABSOLUTE]LUMENS]5050

[OTHER]see www.finelite.com for source file ITL85141. 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	5051
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	55.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.81 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5944	5794	5588
55	5405	5151	4898
65	4811	4477	4101
75	4072	3595	3135
85	3289	1923	1518

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2059.473	2059.473	2059.473	2059.473	2059.473
2.5	2058.206	2058.206	2059.473	2058.206	2058.206
5.0	2048.067	2049.334	2050.601	2050.601	2050.601
7.5	2034.126	2035.393	2037.928	2037.928	2037.928
10.0	2015.115	2012.580	2018.917	2020.185	2016.382
12.5	1987.233	1985.966	1993.570	1996.105	1989.768
15.0	1955.549	1951.747	1963.153	1963.153	1958.083
17.5	1916.260	1911.191	1925.132	1923.865	1916.260
20.0	1873.170	1868.100	1879.507	1875.705	1869.368
22.5	1827.545	1819.940	1828.812	1825.010	1814.871
25.0	1774.315	1765.444	1773.048	1765.444	1756.572
27.5	1714.749	1705.877	1713.481	1702.075	1689.401
30.0	1652.648	1643.776	1646.311	1632.370	1618.429
32.5	1584.210	1576.606	1575.338	1557.595	1543.654
35.0	1513.237	1506.901	1500.564	1480.286	1465.077
37.5	1440.997	1433.393	1423.254	1399.174	1383.966
40.0	1364.955	1357.351	1344.677	1316.795	1302.854
42.5	1286.378	1280.042	1261.031	1233.149	1217.941
45.0	1207.802	1198.930	1177.385	1149.503	1135.562
47.5	1129.225	1121.621	1096.273	1064.589	1050.648
50.0	1049.381	1041.776	1013.894	982.210	967.002
52.5	970.804	963.200	932.783	899.831	889.692
55.0	890.960	880.821	849.137	818.720	807.313
57.5	812.383	802.244	773.094	740.143	726.202
60.0	736.341	724.934	694.518	661.566	647.625
62.5	659.031	648.892	618.476	582.989	571.583
65.0	584.257	574.118	543.701	508.215	498.076
67.5	510.749	501.878	471.461	435.975	427.103
70.0	438.509	430.905	399.221	367.537	358.665
72.5	368.804	362.467	332.050	302.901	294.029
75.0	302.901	296.564	267.415	240.800	233.196
77.5	240.800	234.463	206.581	183.768	174.897
80.0	186.303	174.897	148.282	126.737	119.133
82.5	131.806	119.133	93.785	78.577	72.240
85.0	82.379	69.705	48.160	40.556	38.021
87.5	36.754	22.813	16.476	15.208	13.941
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-F-1X4-DCO-V-837-XXIC-ITL85141.203.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	746.34	N.A.	14.80
0-30	1559.37	N.A.	30.90
0-40	2493.03	N.A.	49.40
0-60	4160.21	N.A.	82.40
0-80	4983.41	N.A.	98.70
0-90	5050.94	N.A.	100.00
10-90	4856.29	N.A.	96.10
20-40	1746.69	N.A.	34.60
20-50	2653.00	N.A.	52.50
40-70	2204.8	N.A.	43.70
60-80	823.20	N.A.	16.30
70-80	285.58	N.A.	5.70
80-90	67.53	N.A.	1.30
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	5050.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	194.65
10-20	551.69
20-30	813.03
30-40	933.66
40-50	906.31
50-60	760.87
60-70	537.61
70-80	285.58
80-90	67.53
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

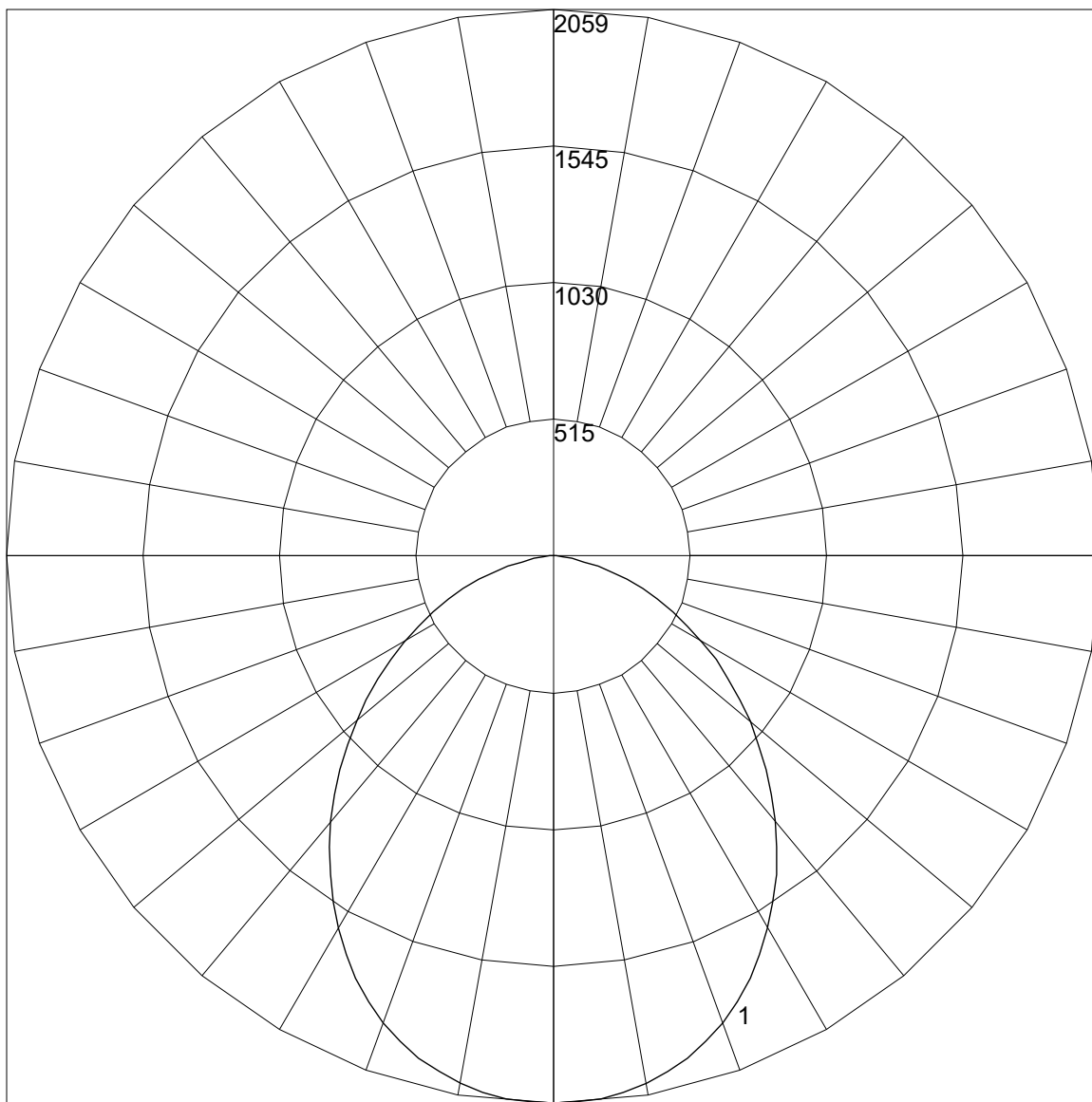
PHOTOMETRIC FILENAME : HPR-LED-F-1X4-DCO-V-837-XXIC-ITL85141.203.IES

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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

POLAR GRAPH



Maximum Candela = 2059.473 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)