

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-DD-V-837-XXIC-ITL85153.203.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85153.203 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/26/15

[ISSUEDATE]05/17/2021

[MANUFAC]FINELITE, INC.

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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 40.2 WATTS

[ABSOLUTE]LUMENS]4424

[OTHER]see www.finelite.com for source file ITL85153. 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	4424
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	40.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.28
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	5095	5020	4952
55	4592	4492	4423
65	4054	3939	3845
75	3437	3301	3199
85	2729	2274	1920

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HPR-LED-F-1X4-DD-V-837-XXIC-ITL85153.203.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1816.138	1816.138	1816.138	1816.138	1816.138
2.5	1813.604	1813.604	1814.871	1814.871	1814.871
5.0	1805.999	1805.999	1805.999	1804.732	1804.732
7.5	1790.791	1790.791	1790.791	1788.256	1789.524
10.0	1773.048	1769.246	1769.246	1769.246	1765.444
12.5	1748.968	1741.364	1743.898	1743.898	1737.561
15.0	1721.086	1708.412	1713.481	1712.214	1703.343
17.5	1684.332	1671.658	1676.728	1674.193	1666.589
20.0	1643.776	1629.835	1633.637	1629.835	1622.231
22.5	1596.884	1585.477	1586.745	1582.943	1574.071
25.0	1548.724	1533.515	1534.783	1529.713	1520.842
27.5	1494.227	1479.018	1479.018	1473.949	1466.345
30.0	1435.928	1421.987	1420.719	1413.115	1406.778
32.5	1373.827	1359.886	1358.618	1349.747	1343.410
35.0	1310.458	1296.517	1293.983	1285.111	1278.774
37.5	1243.288	1231.882	1226.812	1216.673	1211.604
40.0	1176.117	1164.711	1160.909	1149.503	1143.166
42.5	1106.412	1097.541	1091.204	1078.530	1077.263
45.0	1036.707	1027.835	1021.499	1010.092	1007.558
47.5	967.002	960.665	950.526	941.654	937.852
50.0	894.762	890.960	880.821	869.414	868.147
52.5	826.324	819.987	811.115	798.442	798.442
55.0	757.886	751.549	741.410	731.271	730.004
57.5	690.716	683.111	674.240	664.101	662.833
60.0	623.545	617.208	607.069	598.198	596.930
62.5	556.375	553.840	542.433	532.295	532.295
65.0	493.006	487.937	479.065	468.926	467.659
67.5	429.638	425.836	418.231	410.627	406.825
70.0	368.804	366.269	358.665	351.061	348.526
72.5	311.773	307.970	300.366	294.029	292.762
75.0	256.008	252.206	245.869	239.533	238.265
77.5	205.314	198.977	193.907	188.838	186.303
80.0	155.886	150.817	144.480	139.410	136.876
82.5	110.261	105.192	98.855	93.785	91.250
85.0	68.438	64.636	57.032	51.962	48.160
87.5	30.417	25.347	19.011	17.743	16.476
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-F-1X4-DD-V-837-XXIC-ITL85153.203.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	653.18	N.A.	14.80
0-30	1358.7	N.A.	30.70
0-40	2166.5	N.A.	49.00
0-60	3617.87	N.A.	81.80
0-80	4355.71	N.A.	98.50
0-90	4424.16	N.A.	100.00
10-90	4252.98	N.A.	96.10
20-40	1513.32	N.A.	34.20
20-50	2300.55	N.A.	52.00
40-70	1927.23	N.A.	43.60
60-80	737.84	N.A.	16.70
70-80	261.98	N.A.	5.90
80-90	68.44	N.A.	1.50
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	4424.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	171.17
10-20	482.01
20-30	705.51
30-40	807.80
40-50	787.23
50-60	664.15
60-70	475.86
70-80	261.98
80-90	68.44
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

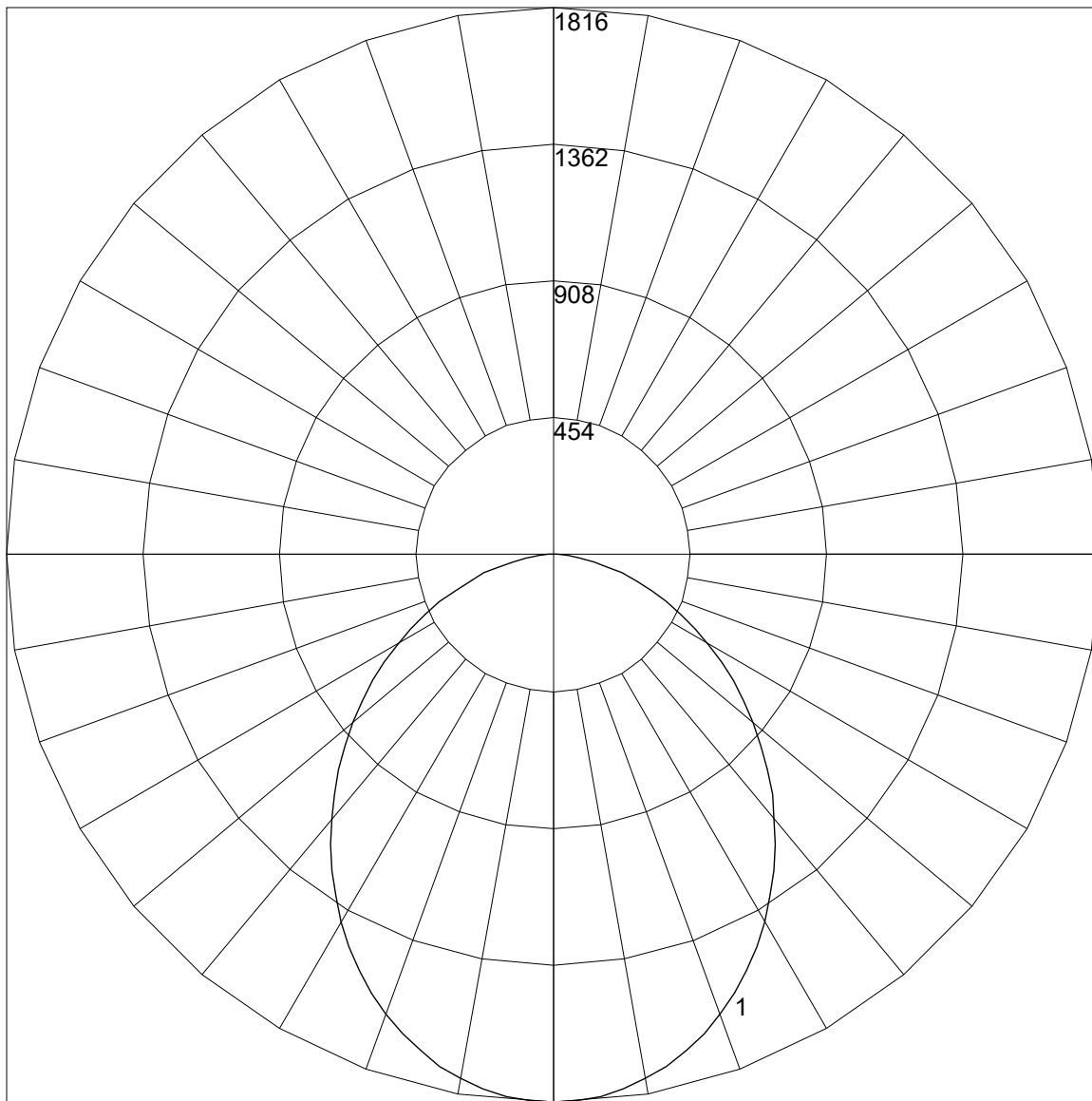
PHOTOMETRIC FILENAME : HPR-LED-F-1X4-DD-V-837-XXIC-ITL85153.203.IES

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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1816.138 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)