

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-2X4-DCO-V-837-XXIC-ITL85145.200.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85145.200 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/20/15

[ISSUEDATE]04/29/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HPR-LED-F-2X4-DCO-V-837-XXIC

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 51.7 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 51.1 WATTS

[ABSOLUTE]LUMENS]6001

[OTHER]see www.finelite.com for source file ITL85145. 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	6002
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	51.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
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	3078	3063	3068
55	2785	2776	2755
65	2457	2438	2397
75	2062	2021	2001
85	1573	1481	1359

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2357.26	2357.26	2357.26	2357.26	2357.26
2.5	2355.54	2355.54	2355.54	2354.68	2354.68
5.0	2347.80	2346.08	2346.08	2345.22	2345.22
7.5	2333.18	2331.46	2330.60	2328.88	2328.02
10.0	2309.10	2308.24	2307.38	2306.52	2303.08
12.5	2280.72	2277.28	2279.00	2276.42	2274.70
15.0	2247.18	2242.02	2243.74	2240.30	2237.72
17.5	2206.76	2202.46	2200.74	2197.30	2197.30
20.0	2159.46	2155.16	2151.72	2148.28	2148.28
22.5	2106.14	2101.84	2099.26	2094.96	2094.96
25.0	2046.80	2041.64	2039.06	2034.76	2035.62
27.5	1982.30	1976.28	1972.84	1969.40	1971.12
30.0	1911.78	1905.76	1903.18	1899.74	1901.46
32.5	1836.10	1830.94	1827.50	1824.92	1826.64
35.0	1756.98	1750.96	1748.38	1745.80	1748.38
37.5	1673.56	1668.40	1665.82	1663.24	1666.68
40.0	1586.70	1580.68	1578.96	1577.24	1579.82
42.5	1497.26	1492.10	1490.38	1488.66	1492.10
45.0	1406.10	1400.08	1399.22	1398.36	1401.80
47.5	1312.36	1307.20	1307.20	1306.34	1308.92
50.0	1218.62	1214.32	1214.32	1212.60	1215.18
52.5	1124.88	1120.58	1120.58	1122.30	1115.42
55.0	1032.00	1027.70	1028.56	1027.70	1020.82
57.5	939.98	938.26	938.26	933.96	931.38
60.0	847.96	846.24	846.24	841.08	837.64
62.5	758.52	756.80	755.08	749.92	747.34
65.0	670.80	669.08	665.64	658.76	654.46
67.5	583.94	583.08	578.78	571.90	568.46
70.0	500.52	501.38	495.36	489.34	485.90
72.5	420.54	421.40	414.52	411.94	410.22
75.0	344.86	344.00	337.98	333.68	334.54
77.5	272.62	270.90	266.60	263.16	263.16
80.0	205.54	202.96	199.52	196.94	196.94
82.5	144.48	142.76	140.18	135.02	135.02
85.0	88.58	86.00	83.42	78.26	76.54
87.5	36.98	35.26	29.24	25.80	24.94
90.0	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	854.74	N.A.	14.20
0-30	1793.32	N.A.	29.90
0-40	2886.66	N.A.	48.10
0-60	4886.07	N.A.	81.40
0-80	5906.1	N.A.	98.40
0-90	6001.94	N.A.	100.00
10-90	5779.23	N.A.	96.30
20-40	2031.91	N.A.	33.90
20-50	3111.69	N.A.	51.80
40-70	2658.44	N.A.	44.30
60-80	1020.03	N.A.	17.00
70-80	361.00	N.A.	6.00
80-90	95.84	N.A.	1.60
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	6001.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	222.71
10-20	632.03
20-30	938.57
30-40	1093.34
40-50	1079.77
50-60	919.64
60-70	659.03
70-80	361.00
80-90	95.84
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

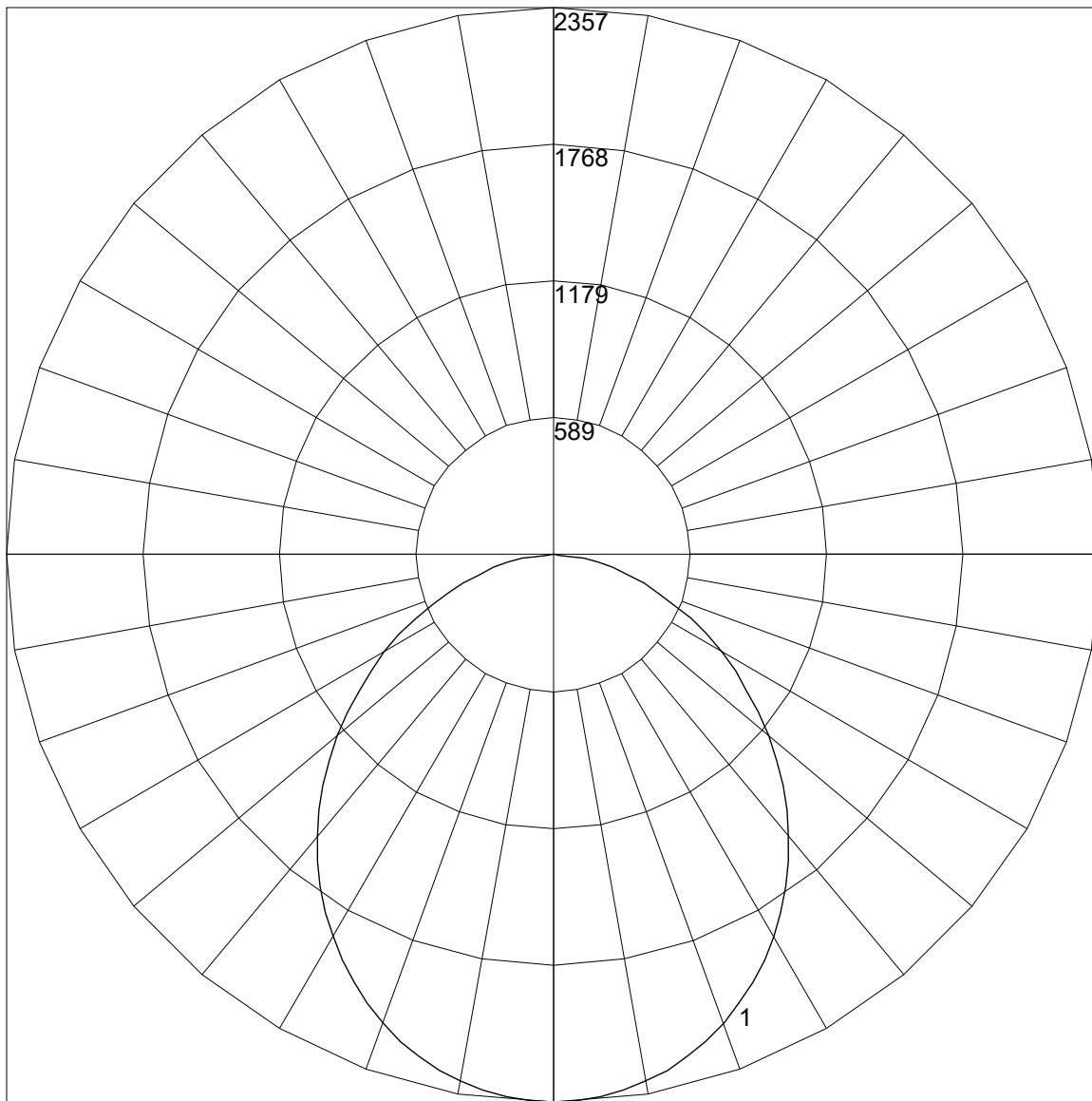
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 2357.26 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)