

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-2X2-CS-V-837-XXIC-ITL86019.200.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL86019.200 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]11/11/15

[ISSUEDATE]05/17/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-2X2-CS-V-837-XXIC

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 54.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 53.6 WATTS

[ABSOLUTE LUMENS]5274

[OTHER]see www.finelite.com for source file ITL86019. 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	5274
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	54.6
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)	1.82 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	5582	5554	5617
55	5227	5227	5324
65	4789	4835	4974
75	4066	4261	4521
85	2858	3565	3629

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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	1972.84	1972.84	1972.84	1972.84	1972.84
2.5	1971.12	1971.12	1971.98	1971.12	1971.12
5.0	1964.24	1964.24	1964.24	1963.38	1964.24
7.5	1950.48	1951.34	1951.34	1950.48	1950.48
10.0	1933.28	1934.14	1931.56	1930.70	1928.12
12.5	1907.48	1909.20	1907.48	1904.04	1903.18
15.0	1877.38	1878.24	1875.66	1873.08	1872.22
17.5	1841.26	1842.98	1839.54	1836.96	1836.96
20.0	1801.70	1802.56	1799.12	1796.54	1796.54
22.5	1756.12	1756.98	1752.68	1752.68	1751.82
25.0	1709.68	1708.82	1703.66	1705.38	1702.80
27.5	1656.36	1655.50	1651.20	1652.92	1650.34
30.0	1600.46	1597.88	1595.30	1597.88	1596.16
32.5	1541.12	1538.54	1535.96	1538.54	1539.40
35.0	1477.48	1477.48	1472.32	1477.48	1480.06
37.5	1414.70	1412.98	1409.54	1415.56	1419.86
40.0	1348.48	1343.32	1345.04	1351.06	1356.22
42.5	1282.26	1278.82	1275.38	1284.84	1287.42
45.0	1212.60	1204.86	1206.58	1216.90	1220.34
47.5	1141.22	1136.92	1136.06	1146.38	1150.68
50.0	1068.98	1064.68	1066.40	1075.86	1082.74
52.5	995.02	991.58	994.16	1003.62	1010.50
55.0	921.06	917.62	921.06	931.38	938.26
57.5	846.24	842.80	848.82	858.28	865.16
60.0	771.42	767.12	775.72	785.18	792.06
62.5	696.60	690.58	701.76	711.22	718.96
65.0	621.78	616.62	627.80	638.12	645.86
67.5	546.10	542.66	552.98	565.88	572.76
70.0	472.14	468.70	479.02	491.92	497.94
72.5	394.74	397.32	408.50	421.40	428.28
75.0	323.36	326.80	338.84	352.60	359.48
77.5	254.56	259.72	272.62	285.52	293.26
80.0	190.06	196.94	209.84	221.88	228.76
82.5	129.00	136.74	152.22	159.96	163.40
85.0	76.54	84.28	95.46	95.46	97.18
87.5	30.96	36.98	40.42	42.14	43.86
90.0	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	715.12	N.A.	13.60
0-30	1500.61	N.A.	28.50
0-40	2424.36	N.A.	46.00
0-60	4186.06	N.A.	79.40
0-80	5169.38	N.A.	98.00
0-90	5273.65	N.A.	100.00
10-90	5087.2	N.A.	96.50
20-40	1709.24	N.A.	32.40
20-50	2643.93	N.A.	50.10
40-70	2384.3	N.A.	45.20
60-80	983.32	N.A.	18.60
70-80	360.72	N.A.	6.80
80-90	104.27	N.A.	2.00
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	5273.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	186.45
10-20	528.67
20-30	785.49
30-40	923.75
40-50	934.69
50-60	827.01
60-70	622.60
70-80	360.72
80-90	104.27
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

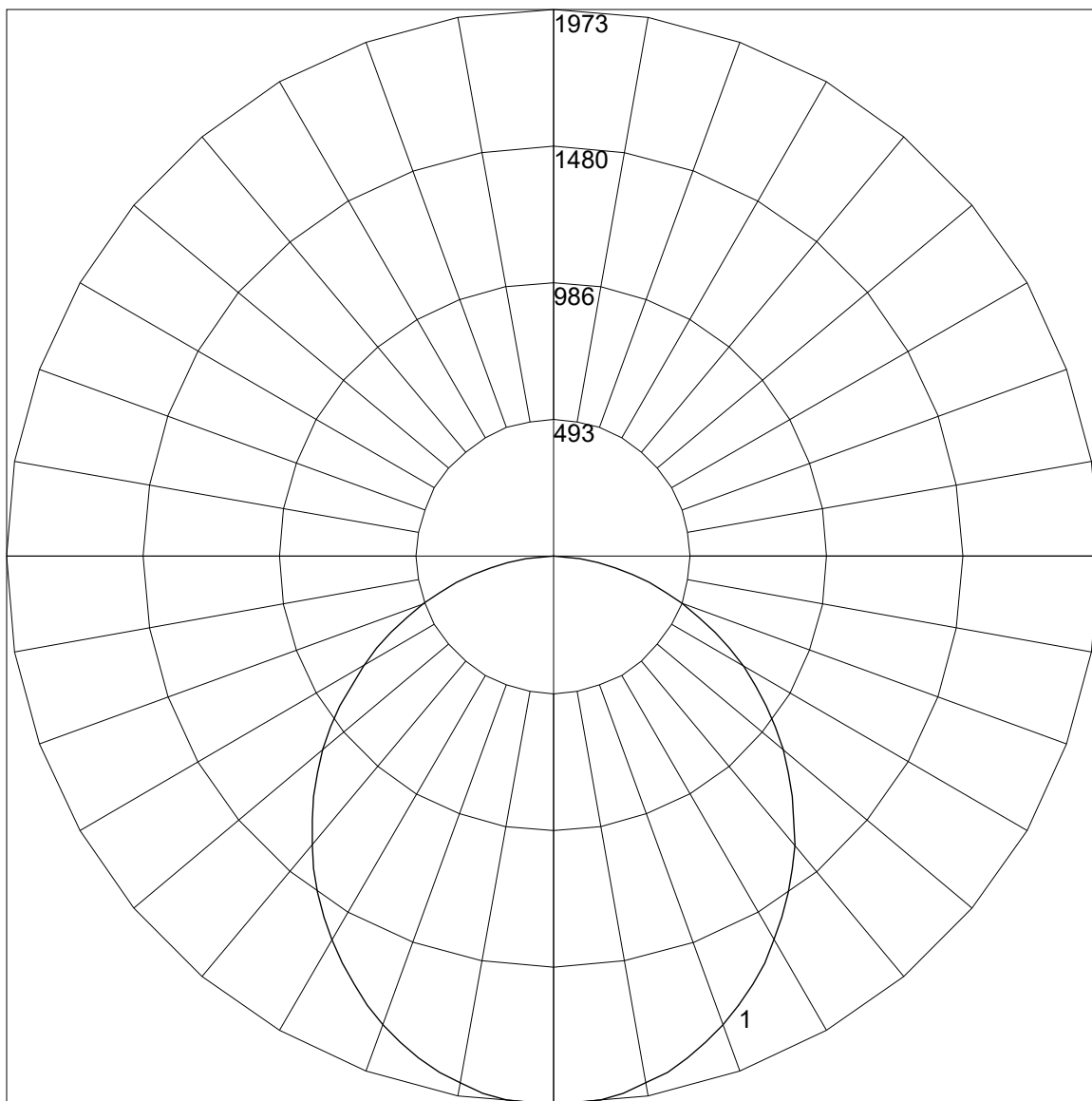
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	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	43	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 = 1972.84 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)