

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-8-TW-ITL86019.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL86019.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE] 11/11/15
[ISSUE DATE]04/15/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-2X2-CS-V-8-TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 64.0 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 62.9 WATTS
[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
[_ABSOLUTE LUMENS]6132

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6132
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	64
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	6490	6458	6532
55	6077	6077	6191
65	5568	5622	5784
75	4728	4955	5257
85	3324	4145	4220

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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	2294	2294	2294	2294	2294
2.5	2292	2292	2293	2292	2292
5.0	2284	2284	2284	2283	2284
7.5	2268	2269	2269	2268	2268
10.0	2248	2249	2246	2245	2242
12.5	2218	2220	2218	2214	2213
15.0	2183	2184	2181	2178	2177
17.5	2141	2143	2139	2136	2136
20.0	2095	2096	2092	2089	2089
22.5	2042	2043	2038	2038	2037
25.0	1988	1987	1981	1983	1980
27.5	1926	1925	1920	1922	1919
30.0	1861	1858	1855	1858	1856
32.5	1792	1789	1786	1789	1790
35.0	1718	1718	1712	1718	1721
37.5	1645	1643	1639	1646	1651
40.0	1568	1562	1564	1571	1577
42.5	1491	1487	1483	1494	1497
45.0	1410	1401	1403	1415	1419
47.5	1327	1322	1321	1333	1338
50.0	1243	1238	1240	1251	1259
52.5	1157	1153	1156	1167	1175
55.0	1071	1067	1071	1083	1091
57.5	984	980	987	998	1006
60.0	897	892	902	913	921
62.5	810	803	816	827	836
65.0	723	717	730	742	751
67.5	635	631	643	658	666
70.0	549	545	557	572	579
72.5	459	462	475	490	498
75.0	376	380	394	410	418
77.5	296	302	317	332	341
80.0	221	229	244	258	266
82.5	150	159	177	186	190
85.0	89	98	111	111	113
87.5	36	43	47	49	51
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	831.54	N.A.	13.60
0-30	1744.9	N.A.	28.50
0-40	2819.03	N.A.	46.00
0-60	4867.51	N.A.	79.40
0-80	6010.91	N.A.	98.00
0-90	6132.15	N.A.	100.00
10-90	5915.35	N.A.	96.50
20-40	1987.49	N.A.	32.40
20-50	3074.33	N.A.	50.10
40-70	2772.44	N.A.	45.20
60-80	1143.4	N.A.	18.60
70-80	419.44	N.A.	6.80
80-90	121.24	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	6132.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	216.80
10-20	614.73
20-30	913.36
30-40	1074.13
40-50	1086.85
50-60	961.64
60-70	723.96
70-80	419.44
80-90	121.24
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

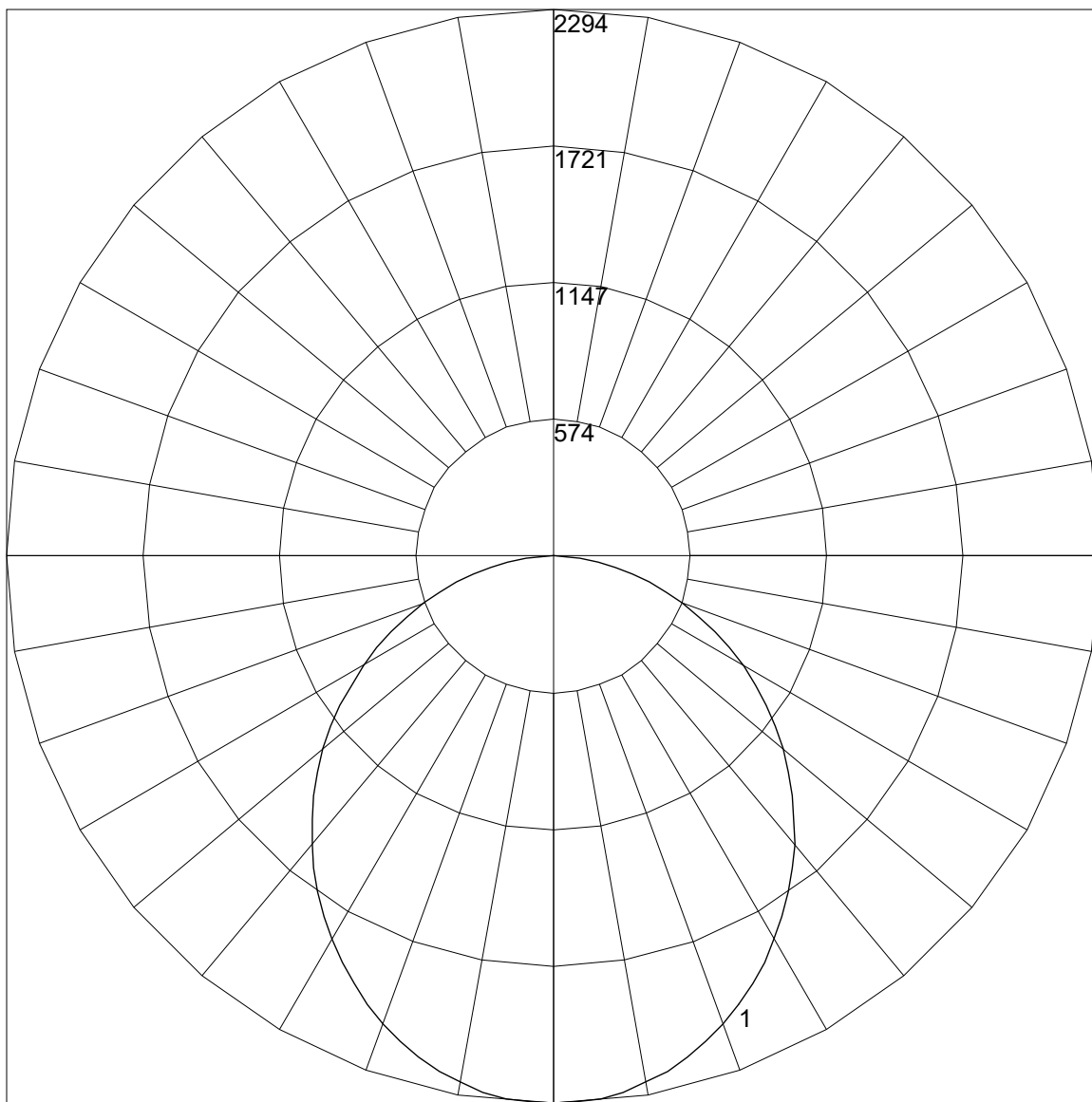
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2294 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)