

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-H-837-XXIC-ITL86019.203.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL86019.203 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]11/30/15

[ISSUEDATE]05/17/2021

[MANUFAC]FINELITE, INC.

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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.2 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 40.7 WATTS

[ABSOLUTE LUMENS]4050

[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	4049
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	40.2
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	4286	4265	4313
55	4013	4013	4088
65	3677	3713	3819
75	3122	3272	3471
85	2195	2737	2787

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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	1514.859	1514.859	1514.859	1514.859	1514.859
2.5	1513.539	1513.539	1514.199	1513.539	1513.539
5.0	1508.256	1508.256	1508.256	1507.595	1508.256
7.5	1497.690	1498.350	1498.350	1497.690	1497.690
10.0	1484.483	1485.143	1483.162	1482.502	1480.521
12.5	1464.672	1465.993	1464.672	1462.031	1461.370
15.0	1441.560	1442.220	1440.239	1438.258	1437.597
17.5	1413.825	1415.145	1412.504	1410.523	1410.523
20.0	1383.448	1384.109	1381.467	1379.486	1379.486
22.5	1348.449	1349.110	1345.808	1345.808	1345.147
25.0	1312.790	1312.130	1308.167	1309.488	1307.507
27.5	1271.848	1271.187	1267.886	1269.206	1267.225
30.0	1228.925	1226.944	1224.962	1226.944	1225.623
32.5	1183.360	1181.379	1179.398	1181.379	1182.039
35.0	1134.494	1134.494	1130.531	1134.494	1136.475
37.5	1086.287	1084.967	1082.325	1086.948	1090.250
40.0	1035.440	1031.478	1032.799	1037.421	1041.383
42.5	984.592	981.951	979.310	986.574	988.555
45.0	931.104	925.160	926.481	934.405	937.047
47.5	876.294	872.992	872.332	880.256	883.558
50.0	820.824	817.522	818.843	826.107	831.390
52.5	764.033	761.392	763.373	770.637	775.920
55.0	707.242	704.601	707.242	715.167	720.450
57.5	649.791	647.150	651.772	659.036	664.319
60.0	592.340	589.039	595.642	602.906	608.189
62.5	534.889	530.267	538.851	546.115	552.059
65.0	477.438	473.476	482.061	489.985	495.928
67.5	419.327	416.685	424.610	434.515	439.798
70.0	362.536	359.895	367.819	377.724	382.347
72.5	303.104	305.085	313.670	323.575	328.858
75.0	248.294	250.936	260.181	270.746	276.029
77.5	195.466	199.428	209.333	219.239	225.182
80.0	145.939	151.222	161.127	170.372	175.655
82.5	99.054	104.997	116.883	122.826	125.468
85.0	58.772	64.715	73.300	73.300	74.620
87.5	23.773	28.395	31.037	32.357	33.678
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	549.11	N.A.	13.60
0-30	1152.25	N.A.	28.50
0-40	1861.56	N.A.	46.00
0-60	3214.29	N.A.	79.40
0-80	3969.35	N.A.	98.00
0-90	4049.41	N.A.	100.00
10-90	3906.24	N.A.	96.50
20-40	1312.45	N.A.	32.40
20-50	2030.16	N.A.	50.10
40-70	1830.8	N.A.	45.20
60-80	755.05	N.A.	18.60
70-80	276.98	N.A.	6.80
80-90	80.06	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	4049.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	143.17
10-20	405.94
20-30	603.14
30-40	709.31
40-50	717.71
50-60	635.02
60-70	478.07
70-80	276.98
80-90	80.06
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

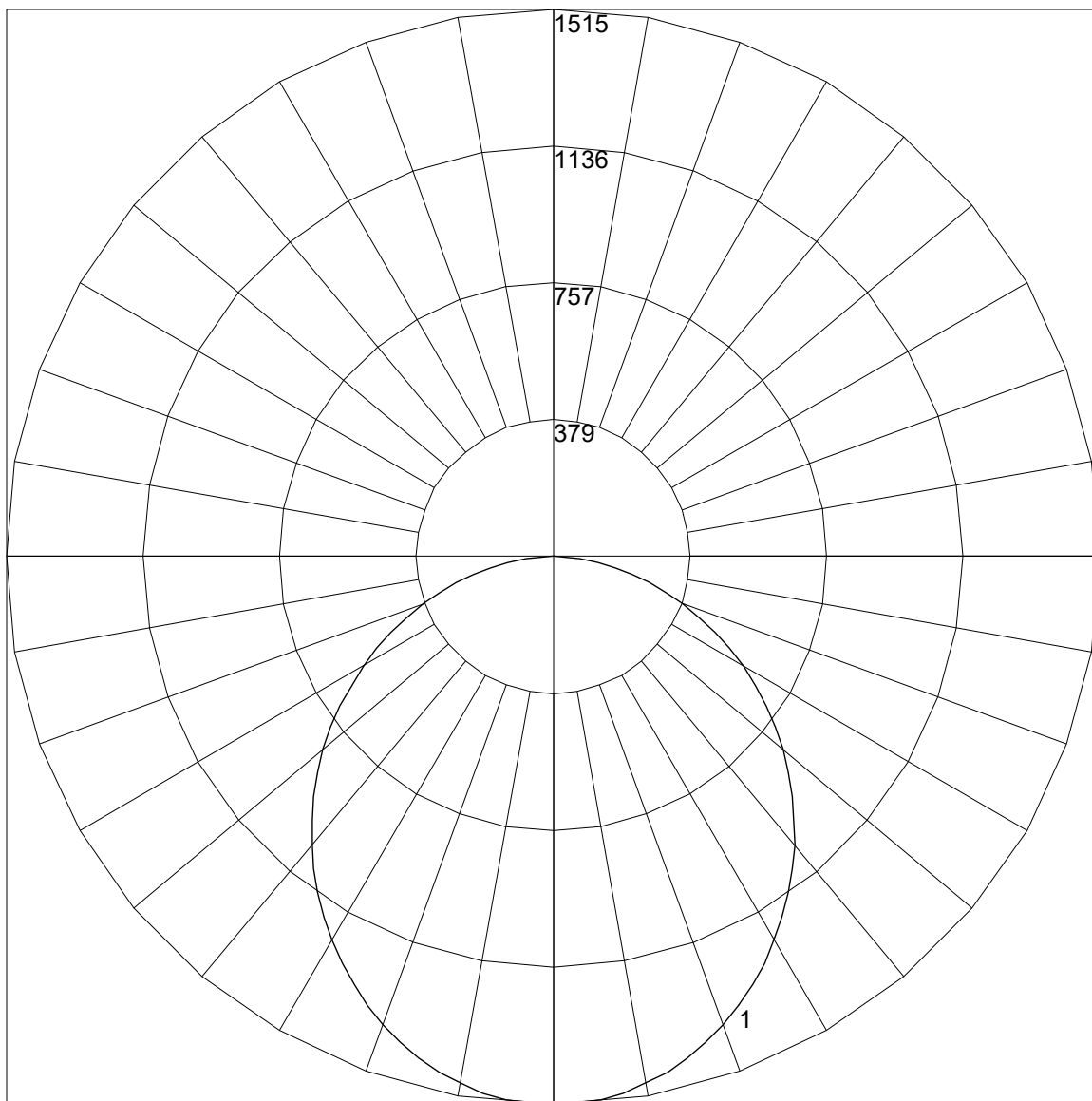
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1514.859 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)