

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-2X4-CS-S-8-35-ITL86020.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL86020.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]11/10/15

[ISSUEDATE]04/28/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-2X4-CS-S-8-35

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 27.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 28.0 WATTS

[ABSOLUTE]LUMENS]3569

[OTHER]see www.finelite.com for source file ITL86020. 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	3569
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	27
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
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	1829	1790	1785
55	1723	1680	1673
65	1570	1540	1542
75	1322	1348	1387
85	864	1104	1075

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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	1351.351	1351.351	1351.351	1351.351	1351.351
2.5	1350.270	1349.730	1349.730	1349.189	1349.730
5.0	1344.865	1344.324	1343.784	1343.243	1342.703
7.5	1335.676	1334.054	1332.973	1331.892	1330.811
10.0	1321.081	1320.540	1318.919	1316.216	1315.135
12.5	1303.243	1302.703	1301.081	1298.919	1296.757
15.0	1283.243	1282.162	1279.459	1276.216	1274.054
17.5	1260.000	1258.378	1253.513	1250.270	1249.189
20.0	1232.973	1230.811	1225.405	1222.162	1221.081
22.5	1203.784	1200.540	1195.135	1190.811	1189.730
25.0	1170.811	1166.486	1161.081	1156.216	1155.135
27.5	1135.135	1130.270	1124.324	1119.459	1118.378
30.0	1097.297	1091.351	1085.405	1080.000	1078.919
32.5	1057.838	1051.351	1044.865	1039.459	1038.378
35.0	1015.676	1009.189	1001.622	996.216	995.676
37.5	972.432	965.405	957.838	953.513	952.432
40.0	927.568	920.000	912.432	909.730	907.568
42.5	883.243	874.595	866.486	863.784	862.162
45.0	835.676	825.405	817.838	816.757	815.676
47.5	787.027	776.757	770.270	768.649	768.108
50.0	737.838	727.568	720.541	720.541	720.000
52.5	688.649	677.838	671.351	671.892	669.189
55.0	638.378	628.108	622.703	622.162	620.000
57.5	586.486	576.757	572.432	572.432	570.270
60.0	532.432	524.865	521.622	521.081	520.541
62.5	480.541	473.513	471.351	471.351	470.811
65.0	428.649	421.622	420.541	421.622	421.081
67.5	376.216	370.270	370.270	371.892	371.892
70.0	323.243	319.459	321.081	323.243	325.946
72.5	271.351	270.811	272.432	275.676	278.378
75.0	221.081	222.162	225.405	229.189	231.892
77.5	172.973	175.676	180.541	184.865	187.568
80.0	127.568	132.432	138.919	142.703	144.865
82.5	86.486	92.973	99.459	101.622	102.703
85.0	48.649	56.757	62.162	61.081	60.541
87.5	16.757	24.324	25.946	25.405	24.324
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	487.99	N.A.	13.70
0-30	1022.89	N.A.	28.70
0-40	1650.48	N.A.	46.30
0-60	2843.13	N.A.	79.70
0-80	3500.94	N.A.	98.10
0-90	3568.57	N.A.	100.00
10-90	3441.12	N.A.	96.40
20-40	1162.49	N.A.	32.60
20-50	1796.25	N.A.	50.30
40-70	1610.65	N.A.	45.10
60-80	657.80	N.A.	18.40
70-80	239.81	N.A.	6.70
80-90	67.64	N.A.	1.90
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	3568.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	127.45
10-20	360.54
20-30	534.90
30-40	627.59
40-50	633.76
50-60	558.89
60-70	418.00
70-80	239.81
80-90	67.64
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

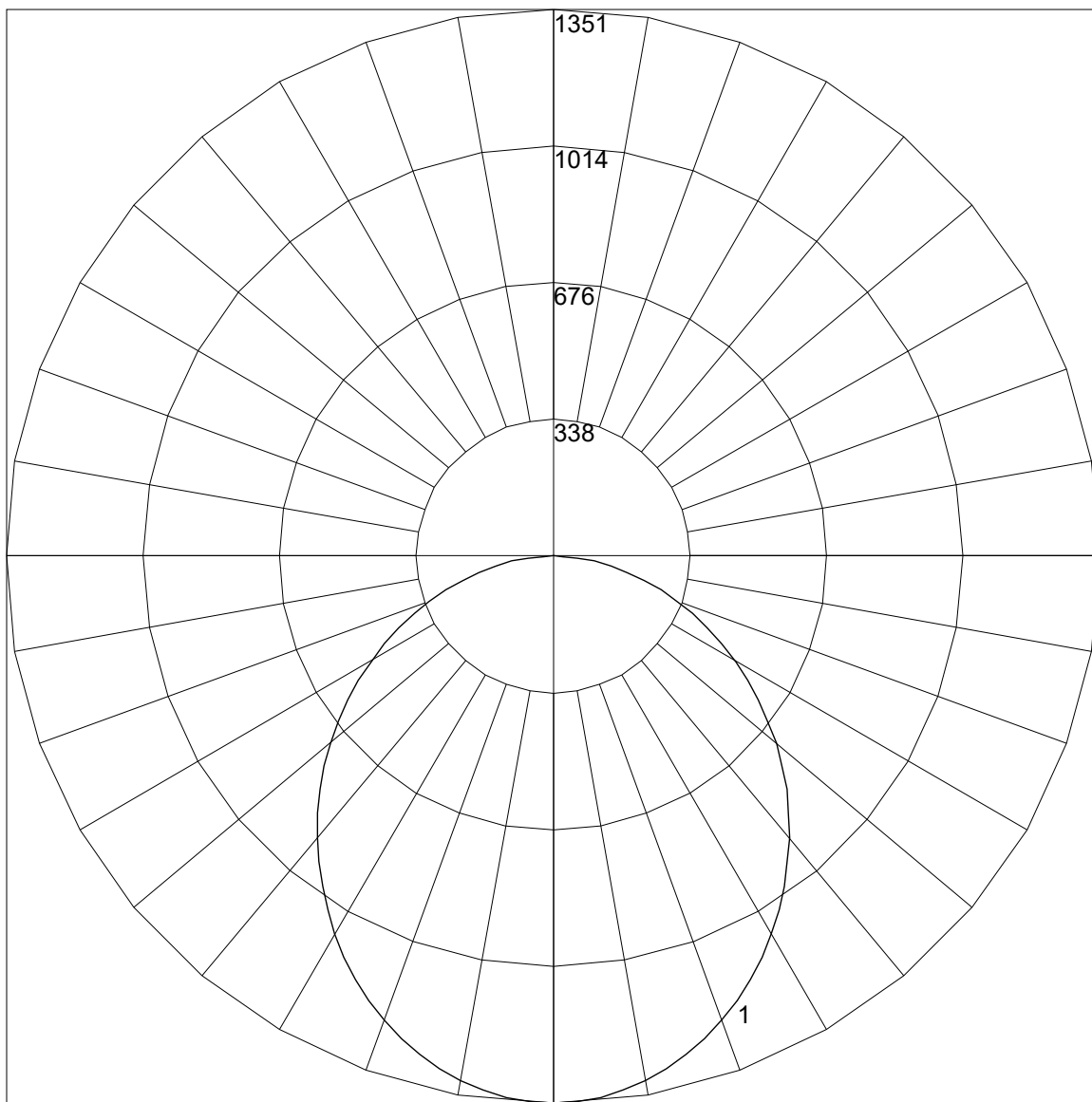
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1351.351 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)