

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-WAV-2X2-S-8-3500K-ITL85836.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85836.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]10/15/15

[ISSUEDATE]04/28/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-WAV-2X2-DCO-S-8-35

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.5 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.3 WATTS

[ABSOLUTE]LUMENS]3470

[OTHER]see www.finelite.com for source file ITL85836. 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	3470
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	28.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
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	3608	3683	3758
55	3366	3456	3549
65	3081	3174	3300
75	2588	2794	2993
85	1695	2129	2267

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1296.750	1296.750	1296.750	1296.750	1296.750
2.5	1295.694	1296.222	1296.222	1296.222	1296.222
5.0	1290.417	1290.944	1290.944	1291.472	1292.000
7.5	1281.444	1281.972	1282.500	1283.556	1284.083
10.0	1269.833	1270.361	1270.889	1270.889	1271.417
12.5	1254.000	1253.472	1255.056	1255.583	1256.639
15.0	1231.833	1233.944	1235.528	1238.694	1239.222
17.5	1207.556	1209.667	1212.833	1216.528	1217.056
20.0	1181.694	1182.750	1187.500	1191.194	1193.833
22.5	1151.083	1152.667	1159.528	1163.750	1166.917
25.0	1118.889	1119.944	1127.333	1132.611	1137.361
27.5	1082.472	1085.639	1093.556	1099.889	1104.639
30.0	1046.056	1047.639	1057.139	1064.000	1068.750
32.5	1004.889	1008.583	1018.083	1026.000	1030.750
35.0	963.194	967.417	977.444	985.361	991.694
37.5	920.444	924.667	935.750	944.194	950.528
40.0	876.111	880.333	891.944	900.389	907.250
42.5	830.194	834.944	846.556	856.583	862.389
45.0	783.750	788.500	800.111	810.667	816.472
47.5	736.778	741.528	753.667	762.639	770.028
50.0	689.806	694.028	706.694	716.194	723.056
52.5	641.778	646.000	658.667	668.167	674.500
55.0	593.222	597.972	609.056	619.611	625.417
57.5	544.139	549.417	559.972	569.472	576.333
60.0	497.694	499.278	510.361	519.861	526.722
62.5	446.500	451.250	461.806	471.833	477.639
65.0	400.056	402.694	412.194	422.222	428.556
67.5	350.972	353.611	363.111	374.722	379.472
70.0	299.778	304.000	315.083	326.694	331.444
72.5	252.278	256.500	268.111	278.139	284.472
75.0	205.833	209.528	222.194	231.694	238.028
77.5	160.444	165.722	176.806	187.361	192.111
80.0	117.694	123.500	134.056	143.556	147.250
82.5	78.639	84.444	93.944	100.806	102.917
85.0	45.389	49.611	57.000	59.111	60.694
87.5	18.472	20.583	22.694	21.639	21.639
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	470.95	N.A.	13.60
0-30	989.99	N.A.	28.50
0-40	1600.99	N.A.	46.10
0-60	2762.44	N.A.	79.60
0-80	3405.76	N.A.	98.20
0-90	3469.71	N.A.	100.00
10-90	3347.11	N.A.	96.50
20-40	1130.05	N.A.	32.60
20-50	1747.1	N.A.	50.40
40-70	1570.07	N.A.	45.30
60-80	643.32	N.A.	18.50
70-80	234.69	N.A.	6.80
80-90	63.95	N.A.	1.80
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	3469.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.60
10-20	348.35
20-30	519.05
30-40	611.00
40-50	617.05
50-60	544.39
60-70	408.63
70-80	234.69
80-90	63.95
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

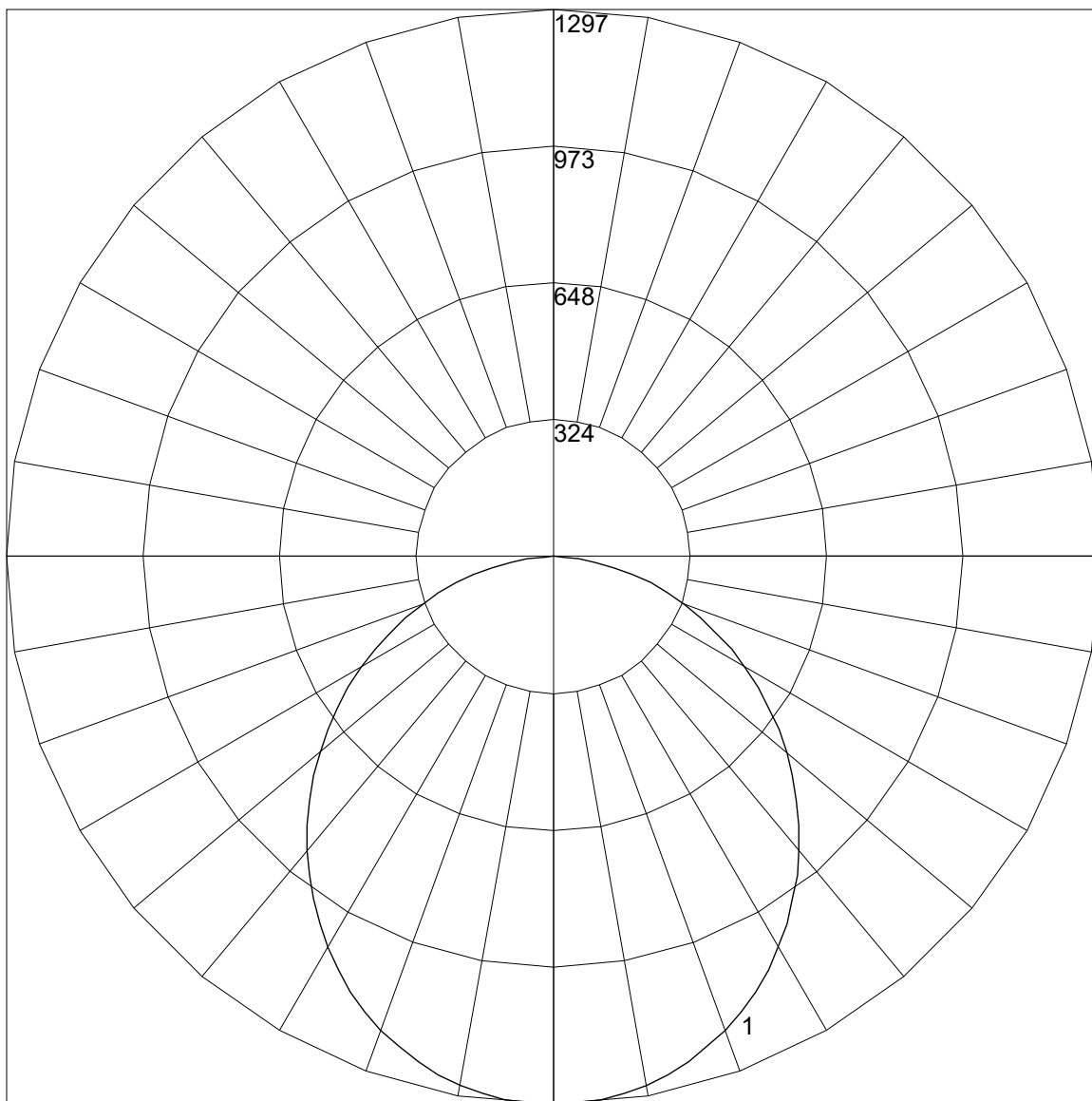
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	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	37	33	43	37	32	30
9	57	44	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 = 1296.75 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)