

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-A-2X2-DCO-S-8-35-ITL85142.005.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85142.005 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/18/15
[ISSUE DATE]04/28/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-A-2X2-DCO-S-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.4 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.3 WATTS
[ABSOLUTE LUMENS]3397
[OTHER]see www.finelite.com for source file ITL85142. 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	3397
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	28.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
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	3583	3629	3714
55	3219	3273	3342
65	2817	2853	2918
75	2363	2369	2436
85	1774	1675	1675

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1358.500	1358.500	1358.500	1358.500	1358.500
2.5	1357.444	1356.917	1356.917	1356.917	1356.917
5.0	1351.639	1351.639	1351.111	1350.583	1351.111
7.5	1342.139	1341.611	1341.611	1341.083	1341.611
10.0	1329.472	1328.417	1327.361	1326.833	1326.833
12.5	1310.472	1309.944	1309.417	1309.944	1310.472
15.0	1287.778	1287.250	1288.306	1288.833	1289.889
17.5	1261.917	1260.861	1262.444	1264.028	1265.611
20.0	1230.778	1231.306	1233.417	1237.111	1238.694
22.5	1197.528	1197.528	1200.694	1204.917	1207.556
25.0	1160.583	1160.583	1164.806	1170.083	1173.778
27.5	1119.944	1119.944	1125.750	1133.139	1136.306
30.0	1075.611	1076.667	1083.000	1092.500	1095.667
32.5	1030.222	1031.806	1038.139	1049.222	1052.389
35.0	982.194	983.250	990.639	1002.778	1006.472
37.5	932.056	933.639	941.556	954.222	958.444
40.0	880.333	881.917	891.944	904.083	908.306
42.5	832.306	830.194	841.278	852.889	859.222
45.0	778.472	777.417	788.500	800.639	806.972
47.5	724.639	724.639	735.722	747.333	753.139
50.0	671.333	671.333	682.417	693.500	698.250
52.5	619.083	619.083	629.639	639.139	643.361
55.0	567.361	566.833	576.861	585.306	589.000
57.5	516.694	515.639	525.139	532.000	535.694
60.0	464.444	464.444	471.833	479.750	480.278
62.5	413.250	415.361	420.111	425.917	429.083
65.0	365.750	367.333	370.500	375.778	378.944
67.5	319.306	319.306	323.000	327.750	330.389
70.0	273.917	273.917	276.556	280.778	283.417
72.5	230.111	230.111	231.167	233.806	238.028
75.0	187.889	186.833	188.417	191.056	193.694
77.5	147.778	147.778	148.833	149.889	152.528
80.0	111.361	110.306	110.833	112.417	114.000
82.5	77.583	76.528	77.056	77.583	78.111
85.0	47.500	45.917	44.861	43.806	44.861
87.5	20.056	17.944	16.361	15.306	15.833
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HPR-LED-A-2X2-DCO-S-8-35-ITL85142.005.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	491.27	N.A.	14.50
0-30	1027.69	N.A.	30.30
0-40	1648.09	N.A.	48.50
0-60	2773.15	N.A.	81.60
0-80	3343.58	N.A.	98.40
0-90	3396.65	N.A.	100.00
10-90	3268.41	N.A.	96.20
20-40	1156.82	N.A.	34.10
20-50	1765.83	N.A.	52.00
40-70	1493.74	N.A.	44.00
60-80	570.43	N.A.	16.80
70-80	201.75	N.A.	5.90
80-90	53.07	N.A.	1.60
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	3396.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	128.23
10-20	363.04
20-30	536.42
30-40	620.40
40-50	609.01
50-60	516.05
60-70	368.68
70-80	201.75
80-90	53.07
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

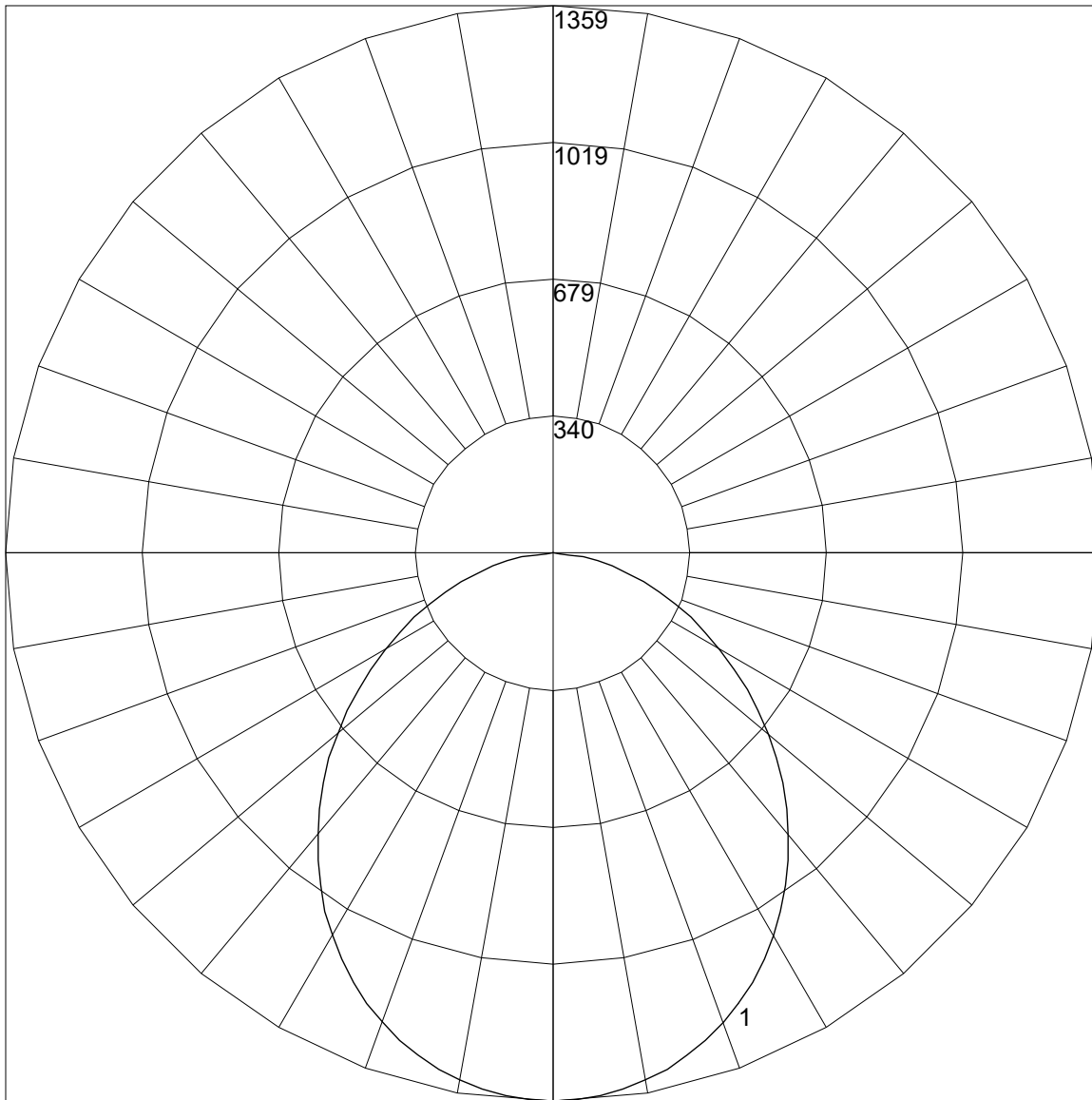
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	45	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1358.5 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)