

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-EP-ANR-2X2-DCO-S-8-35-ITL85150.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85150.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/25/15

[ISSUE DATE]04/27/16

[MANUFAC]FINELITE, INC.

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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.5 WATTS

[ABSOLUTE LUMENS]3059

[OTHER]see www.finelite.com for source file ITL85150. 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	3059
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	28.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
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	3306	3270	3277
55	3121	3076	3082
65	2870	2796	2796
75	2423	2350	2350
85	1656	1596	1557

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1141.583	1141.583	1141.583	1141.583	1141.583
2.5	1140.528	1141.056	1141.056	1141.056	1141.056
5.0	1136.833	1136.833	1136.833	1136.306	1135.778
7.5	1129.444	1129.444	1128.917	1128.389	1128.389
10.0	1118.889	1119.944	1117.833	1116.778	1116.250
12.5	1105.694	1105.167	1104.111	1102.528	1102.000
15.0	1088.806	1088.278	1087.222	1085.639	1085.111
17.5	1068.750	1068.222	1066.639	1066.111	1065.583
20.0	1046.583	1046.056	1044.472	1043.944	1042.889
22.5	1022.833	1020.722	1019.667	1019.139	1019.139
25.0	996.444	993.806	992.750	992.222	992.222
27.5	966.889	964.250	963.194	963.194	963.194
30.0	935.222	932.583	931.528	931.528	932.056
32.5	902.500	899.861	898.278	898.806	898.806
35.0	868.194	865.028	863.444	864.500	864.500
37.5	831.778	828.611	827.556	828.083	828.611
40.0	794.833	791.139	789.556	790.083	791.139
42.5	757.889	752.083	751.028	751.028	752.083
45.0	718.306	712.500	710.389	710.917	711.972
47.5	677.667	671.333	669.222	669.750	670.806
50.0	634.389	629.639	627.528	627.528	629.111
52.5	592.694	587.417	584.778	584.250	586.361
55.0	549.944	544.139	542.028	540.972	543.083
57.5	506.667	500.861	498.222	497.167	498.750
60.0	462.333	456.000	453.361	451.250	453.889
62.5	418.000	411.139	408.500	406.389	409.028
65.0	372.611	367.333	363.111	361.000	363.111
67.5	327.750	321.944	318.250	315.611	318.250
70.0	282.889	277.083	272.861	271.278	273.917
72.5	238.556	232.750	229.583	227.472	228.528
75.0	192.639	190.000	186.833	184.722	186.833
77.5	150.944	147.778	145.139	144.611	144.611
80.0	111.889	109.250	107.139	107.139	107.667
82.5	76.000	74.417	73.361	72.833	72.833
85.0	44.333	43.806	42.750	41.694	41.694
87.5	17.417	17.944	17.417	17.944	17.944
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-EP-ANR-2X2-DCO-S-8-35-ITL85150.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	414.36	N.A.	13.50
0-30	871.75	N.A.	28.50
0-40	1412.55	N.A.	46.20
0-60	2447.35	N.A.	80.00
0-80	3007.78	N.A.	98.30
0-90	3059.05	N.A.	100.00
10-90	2951.15	N.A.	96.50
20-40	998.19	N.A.	32.60
20-50	1547.43	N.A.	50.60
40-70	1395.78	N.A.	45.60
60-80	560.43	N.A.	18.30
70-80	199.46	N.A.	6.50
80-90	51.27	N.A.	1.70
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	3059.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.90
10-20	306.46
20-30	457.39
30-40	540.79
40-50	549.24
50-60	485.56
60-70	360.97
70-80	199.46
80-90	51.27
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

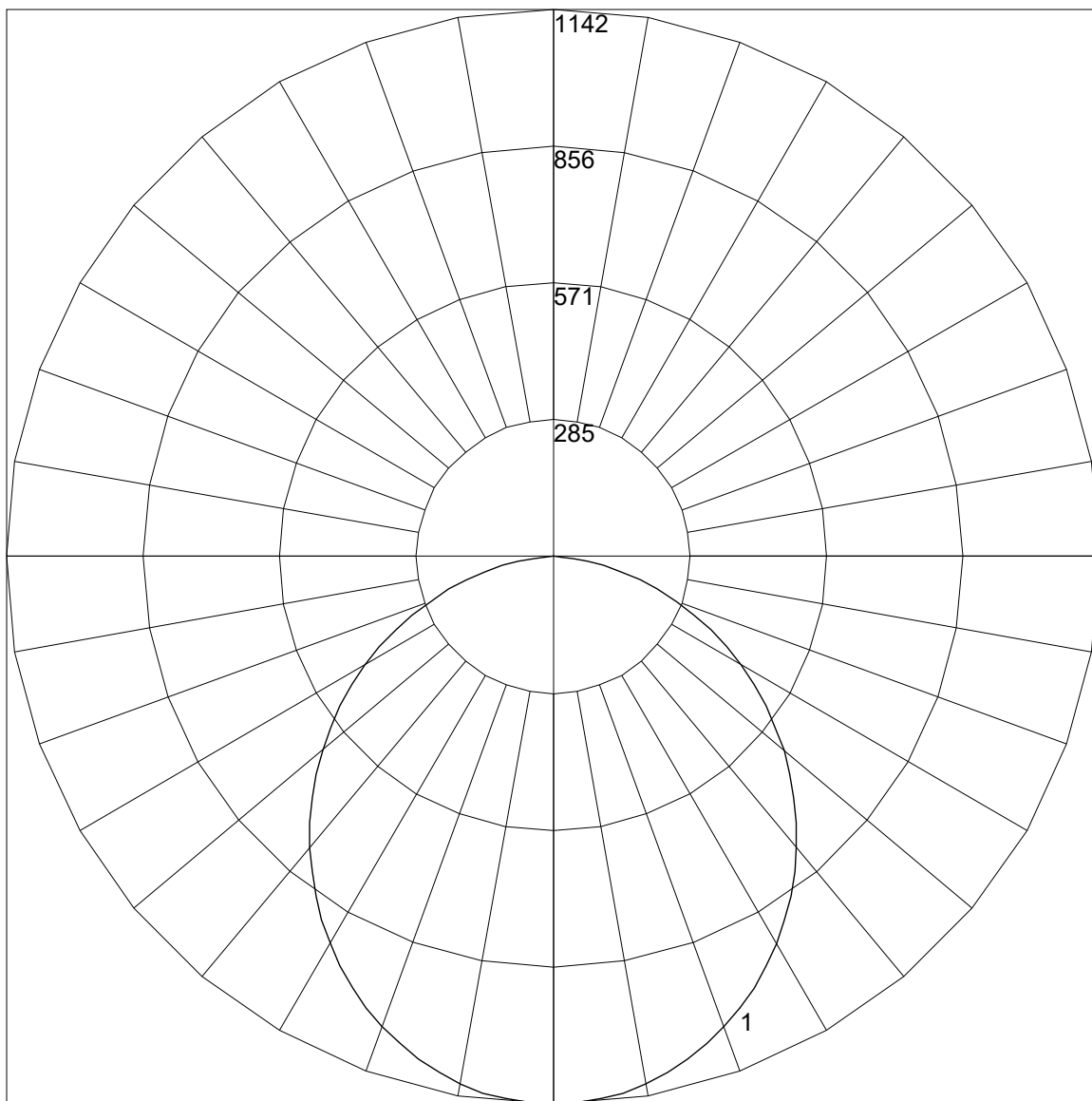
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	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	29	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 = 1141.583 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)