

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-F-1X2-DCO-S-8-35-ITL85140.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85140.001 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/17/15
[ISSUEDATE]04/28/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-F-1X2-DCO-S-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 15.2 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 17.6 WATTS
[ABSOLUTE]LUMENS]1511
[OTHER]see www.finelite.com for source file ITL85140. 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	1511
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	15.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.83 ft
Luminous Width (90-270)	0.81 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3711	3655	3567
55	3330	3231	3063
65	2950	2749	2521
75	2474	2168	1883
85	1886	1170	1105

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	616.778	616.778	616.778	616.778	616.778
2.5	616.000	616.000	616.000	616.000	616.000
5.0	613.667	613.667	613.667	613.667	614.444
7.5	609.000	609.778	609.778	610.556	611.333
10.0	603.556	604.333	604.333	605.111	606.667
12.5	596.556	596.556	597.333	598.889	599.667
15.0	587.222	587.222	588.778	589.556	591.111
17.5	576.333	576.333	577.889	579.444	580.222
20.0	562.333	563.889	564.667	567.000	567.778
22.5	547.556	549.111	549.889	551.444	552.222
25.0	532.000	532.778	534.333	535.111	535.111
27.5	514.111	514.889	515.667	516.444	516.444
30.0	494.667	495.444	496.222	496.222	495.444
32.5	473.667	475.222	475.222	474.444	474.444
35.0	452.667	453.444	453.444	451.111	451.111
37.5	430.111	430.889	430.111	426.222	426.222
40.0	407.556	407.556	405.222	401.333	399.000
42.5	384.222	383.444	380.333	375.667	372.556
45.0	360.111	359.333	354.667	349.222	346.111
47.5	336.000	333.667	329.000	322.778	319.667
50.0	310.333	308.778	304.111	297.111	293.222
52.5	286.222	284.667	278.444	270.667	266.778
55.0	262.111	260.556	254.333	245.778	241.111
57.5	239.556	236.444	229.444	220.111	216.222
60.0	216.222	213.111	205.333	196.000	191.333
62.5	193.667	189.778	182.000	172.667	168.000
65.0	171.111	167.222	159.444	150.111	146.222
67.5	148.556	145.444	136.889	128.333	124.444
70.0	126.778	124.444	115.889	108.111	105.000
72.5	106.556	104.222	95.667	87.889	85.556
75.0	87.889	84.778	77.000	70.000	66.889
77.5	69.222	66.889	59.111	52.889	50.556
80.0	52.111	49.778	42.778	36.556	35.000
82.5	36.556	33.444	27.222	22.556	22.556
85.0	22.556	19.444	14.000	13.222	13.222
87.5	10.111	7.000	6.222	5.444	5.444
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	224.22	N.A.	14.80
0-30	469.76	N.A.	31.10
0-40	752.29	N.A.	49.80
0-60	1251.61	N.A.	82.80
0-80	1491.58	N.A.	98.70
0-90	1511.3	N.A.	100.00
10-90	1453.00	N.A.	96.10
20-40	528.07	N.A.	34.90
20-50	801.05	N.A.	53.00
40-70	656.90	N.A.	43.50
60-80	239.97	N.A.	15.90
70-80	82.39	N.A.	5.50
80-90	19.73	N.A.	1.30
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	1511.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.30
10-20	165.92
20-30	245.54
30-40	282.53
40-50	272.98
50-60	226.33
60-70	157.59
70-80	82.39
80-90	19.73
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

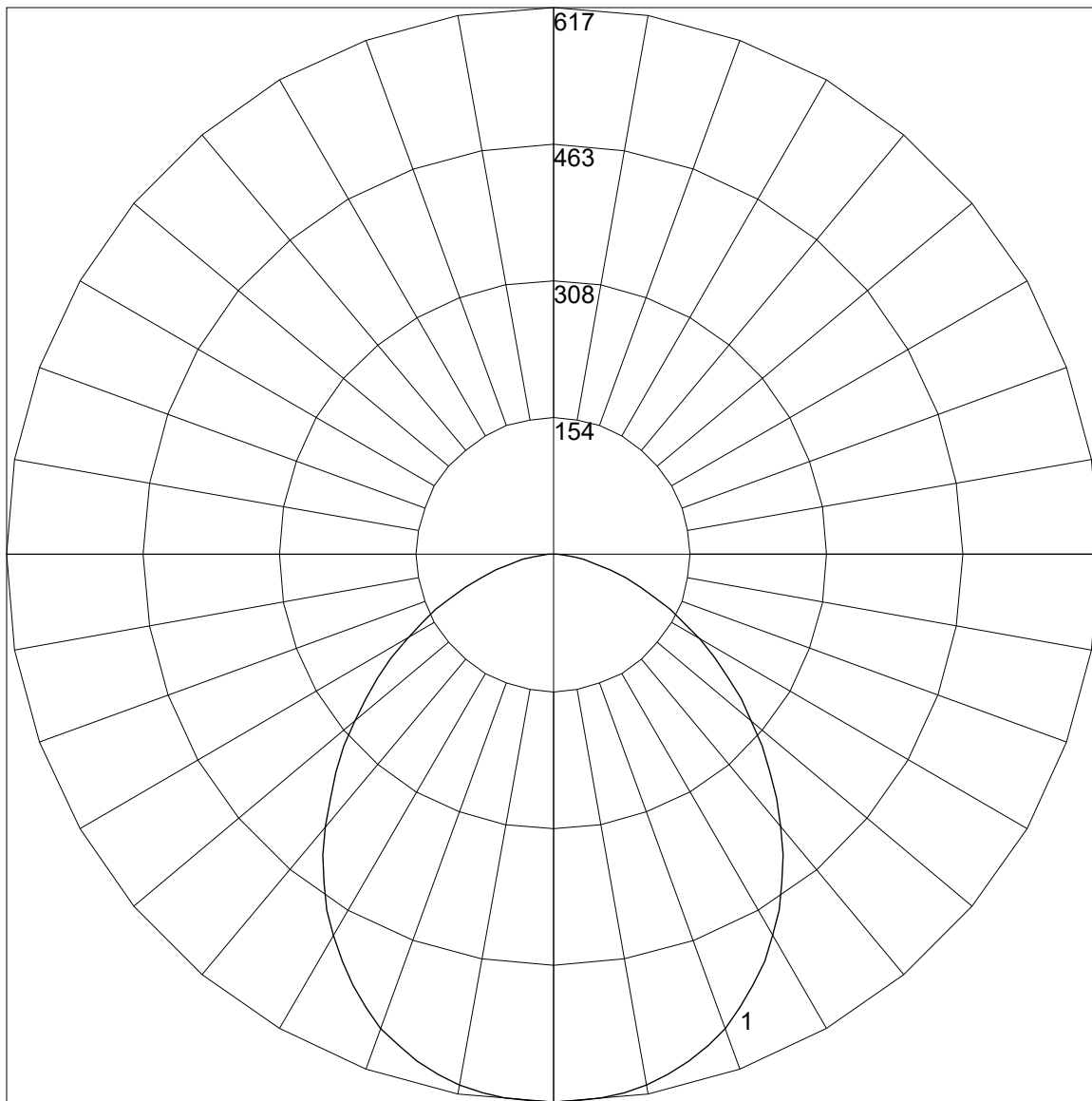
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

POLAR GRAPH



Maximum Candela = 616.778 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)