

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-1X1-DCO-H-8-35-ITL85139.006.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85139.006 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/16/15
[ISSUE DATE]04/28/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-A-1X1-DCO-H-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 22.7 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 25.3 WATTS
[ABSOLUTE LUMENS]2165
[OTHER]see www.finelite.com for source file ITL85139. 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	2165
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	22.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.92 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9093	9093	9093
55	8180	8079	8004
65	7196	6956	6853
75	6099	5707	5428
85	4652	3323	3157

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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	896.211	896.211	896.211	896.211	896.211
2.5	895.079	895.079	895.079	895.079	895.079
5.0	890.553	890.553	891.684	890.553	891.684
7.5	883.763	883.763	883.763	883.763	884.895
10.0	872.447	873.579	874.711	874.711	875.842
12.5	860.000	861.132	861.132	862.263	863.395
15.0	844.158	845.290	845.290	847.553	847.553
17.5	826.053	827.184	827.184	829.447	830.579
20.0	804.553	805.684	806.816	809.079	811.342
22.5	781.921	783.053	783.053	786.447	788.711
25.0	757.026	757.026	758.158	760.421	762.684
27.5	729.868	729.868	731.000	733.263	735.526
30.0	700.447	701.579	701.579	703.842	706.105
32.5	669.895	669.895	671.026	673.290	675.553
35.0	639.342	638.211	639.342	640.474	643.868
37.5	605.395	604.263	606.526	607.658	609.921
40.0	571.447	570.316	571.447	572.579	574.842
42.5	537.500	536.368	537.500	537.500	539.763
45.0	502.421	502.421	502.421	502.421	502.421
47.5	468.474	466.211	467.342	465.079	466.211
50.0	434.526	431.132	432.263	430.000	430.000
52.5	399.447	397.184	397.184	393.790	393.790
55.0	366.632	364.368	362.105	358.711	358.711
57.5	333.816	331.553	327.026	323.632	323.632
60.0	301.000	298.737	294.211	289.684	290.816
62.5	268.184	267.053	261.395	256.868	258.000
65.0	237.632	235.368	229.711	226.316	226.316
67.5	207.079	205.947	199.158	195.763	195.763
70.0	177.658	176.526	169.737	166.342	166.342
72.5	149.368	148.237	142.579	138.053	136.921
75.0	123.342	121.079	115.421	110.895	109.763
77.5	97.316	96.184	89.395	83.737	82.605
80.0	74.684	71.289	64.500	58.842	57.711
82.5	52.053	49.789	41.868	38.474	36.211
85.0	31.684	28.289	22.632	22.632	21.500
87.5	12.447	11.316	10.184	10.184	9.053
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	322.82	N.A.	14.90
0-30	672.02	N.A.	31.00
0-40	1071.75	N.A.	49.50
0-60	1782.84	N.A.	82.30
0-80	2135.05	N.A.	98.60
0-90	2165.47	N.A.	100.00
10-90	2080.95	N.A.	96.10
20-40	748.92	N.A.	34.60
20-50	1136.22	N.A.	52.50
40-70	940.21	N.A.	43.40
60-80	352.21	N.A.	16.30
70-80	123.10	N.A.	5.70
80-90	30.41	N.A.	1.40
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	2165.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

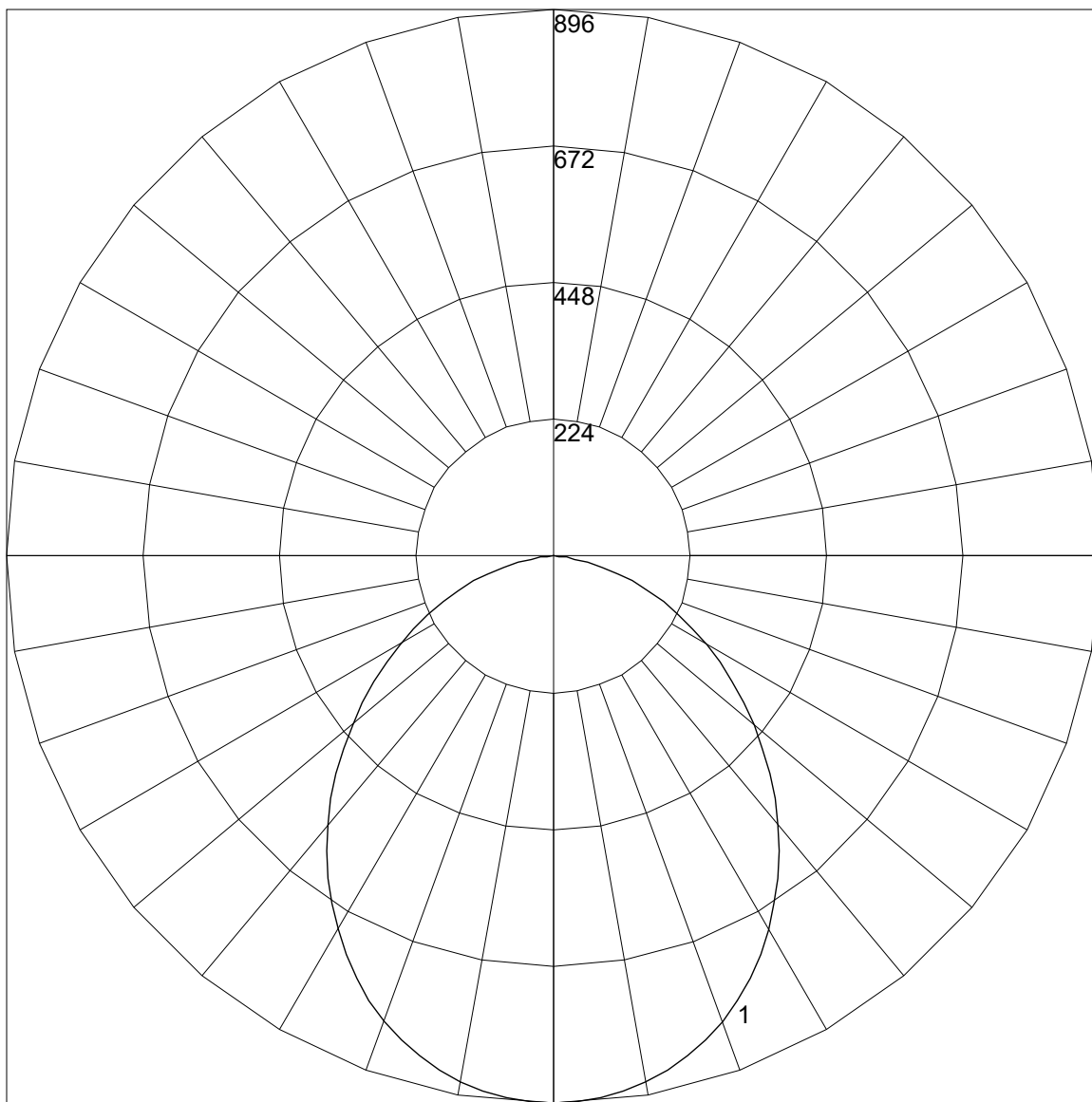
Zone	Lumens
0-10	84.51
10-20	238.31
20-30	349.20
30-40	399.73
40-50	387.29
50-60	323.80
60-70	229.11
70-80	123.10
80-90	30.41
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53
5	78	65	56	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	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	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 = 896.211 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)