

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-H-8-35-ITL85140.002.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85140.002 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/17/15
[ISSUE DATE]04/28/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-F-1X2-DCO-H-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 22.7 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 25.0 WATTS
[ABSOLUTE LUMENS]2199
[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	2199
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	22.7
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	5399	5317	5189
55	4845	4701	4456
65	4292	4000	3668
75	3600	3154	2740
85	2744	1703	1608

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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	897.342	897.342	897.342	897.342	897.342
2.5	896.211	896.211	896.211	896.211	896.211
5.0	892.816	892.816	892.816	892.816	893.947
7.5	886.026	887.158	887.158	888.290	889.421
10.0	878.105	879.237	879.237	880.368	882.632
12.5	867.921	867.921	869.053	871.316	872.447
15.0	854.342	854.342	856.605	857.737	860.000
17.5	838.500	838.500	840.763	843.026	844.158
20.0	818.132	820.395	821.526	824.921	826.053
22.5	796.632	798.895	800.026	802.290	803.421
25.0	774.000	775.132	777.395	778.526	778.526
27.5	747.974	749.105	750.237	751.368	751.368
30.0	719.684	720.816	721.947	721.947	720.816
32.5	689.132	691.395	691.395	690.263	690.263
35.0	658.579	659.711	659.711	656.316	656.316
37.5	625.763	626.895	625.763	620.105	620.105
40.0	592.947	592.947	589.553	583.895	580.500
42.5	559.000	557.868	553.342	546.553	542.026
45.0	523.921	522.790	516.000	508.079	503.553
47.5	488.842	485.447	478.658	469.605	465.079
50.0	451.500	449.237	442.447	432.263	426.605
52.5	416.421	414.158	405.105	393.790	388.132
55.0	381.342	379.079	370.026	357.579	350.790
57.5	348.526	344.000	333.816	320.237	314.579
60.0	314.579	310.053	298.737	285.158	278.368
62.5	281.763	276.105	264.789	251.211	244.421
65.0	248.947	243.289	231.974	218.395	212.737
67.5	216.132	211.605	199.158	186.711	181.053
70.0	184.447	181.053	168.605	157.289	152.763
72.5	155.026	151.632	139.184	127.868	124.474
75.0	127.868	123.342	112.026	101.842	97.316
77.5	100.711	97.316	86.000	76.947	73.553
80.0	75.816	72.421	62.237	53.184	50.921
82.5	53.184	48.658	39.605	32.816	32.816
85.0	32.816	28.289	20.368	19.237	19.237
87.5	14.711	10.184	9.053	7.921	7.921
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	326.22	N.A.	14.80
0-30	683.45	N.A.	31.10
0-40	1094.5	N.A.	49.80
0-60	1820.95	N.A.	82.80
0-80	2170.08	N.A.	98.70
0-90	2198.78	N.A.	100.00
10-90	2113.95	N.A.	96.10
20-40	768.28	N.A.	34.90
20-50	1165.44	N.A.	53.00
40-70	955.72	N.A.	43.50
60-80	349.13	N.A.	15.90
70-80	119.86	N.A.	5.50
80-90	28.70	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	2198.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	84.82
10-20	241.39
20-30	357.24
30-40	411.04
40-50	397.16
50-60	329.29
60-70	229.27
70-80	119.86
80-90	28.70
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

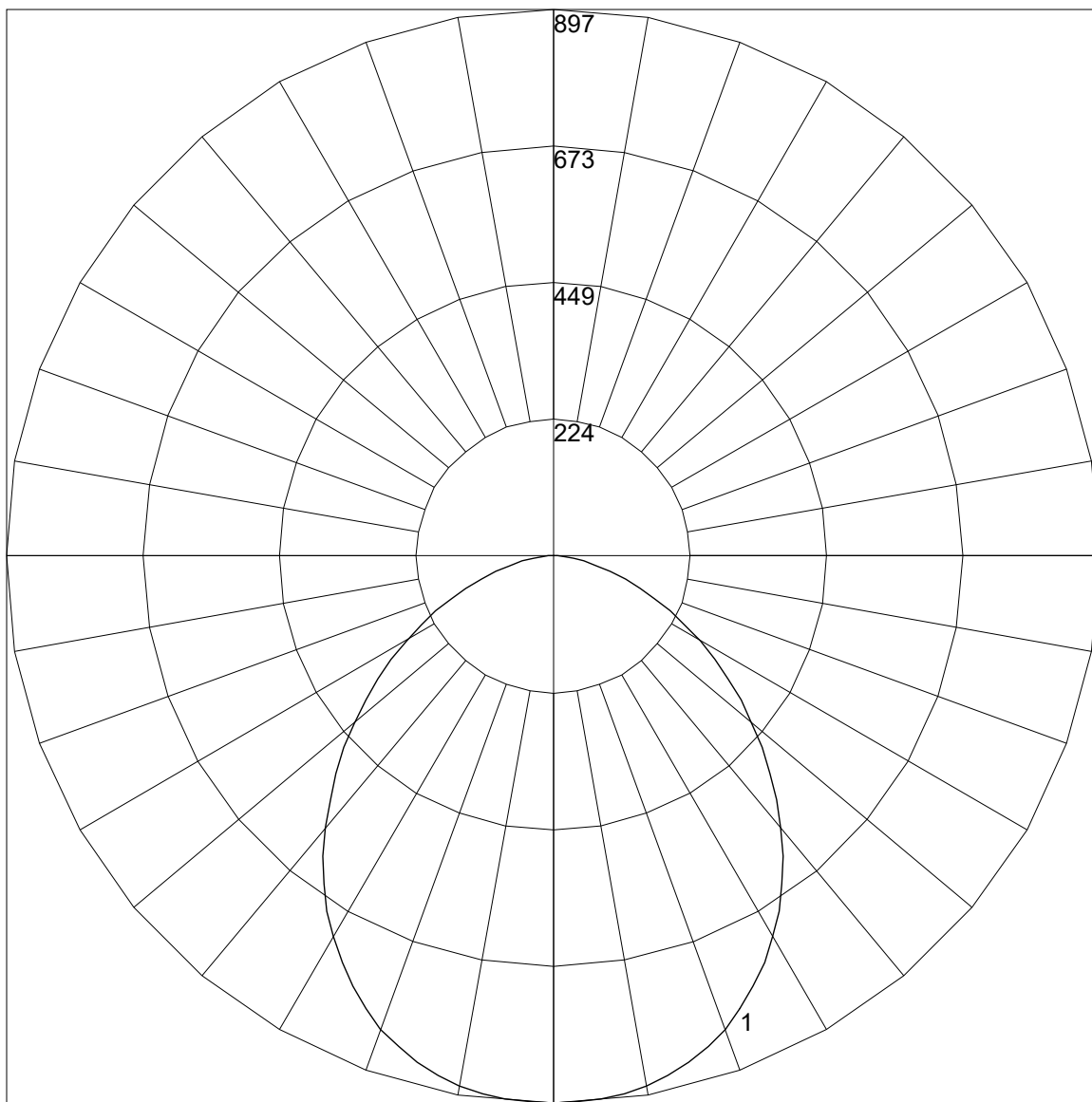
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	84	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 = 897.342 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)