

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-1X2-DCO-B-8-TW-ITL85140.904.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85140.904 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/17/15
[ISSUE DATE]04/20/16
[MANUFAC]FINELITE, INC.
[LUMCAT]HPR-LED-A-1X2-DCO-B-8-TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 21.7 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 23.2 WATTS
[ABSOLUTE LUMENS]1943
[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	1943
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	21.7
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	4771	4699	4586
55	4281	4154	3938
65	3793	3535	3241
75	3181	2787	2421
85	2425	1505	1421

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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	793	793	793	793	793
2.5	792	792	792	792	792
5.0	789	789	789	789	790
7.5	783	784	784	785	786
10.0	776	777	777	778	780
12.5	767	767	768	770	771
15.0	755	755	757	758	760
17.5	741	741	743	745	746
20.0	723	725	726	729	730
22.5	704	706	707	709	710
25.0	684	685	687	688	688
27.5	661	662	663	664	664
30.0	636	637	638	638	637
32.5	609	611	611	610	610
35.0	582	583	583	580	580
37.5	553	554	553	548	548
40.0	524	524	521	516	513
42.5	494	493	489	483	479
45.0	463	462	456	449	445
47.5	432	429	423	415	411
50.0	399	397	391	382	377
52.5	368	366	358	348	343
55.0	337	335	327	316	310
57.5	308	304	295	283	278
60.0	278	274	264	252	246
62.5	249	244	234	222	216
65.0	220	215	205	193	188
67.5	191	187	176	165	160
70.0	163	160	149	139	135
72.5	137	134	123	113	110
75.0	113	109	99	90	86
77.5	89	86	76	68	65
80.0	67	64	55	47	45
82.5	47	43	35	29	29
85.0	29	25	18	17	17
87.5	13	9	8	7	7
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	288.28	N.A.	14.80
0-30	603.98	N.A.	31.10
0-40	967.23	N.A.	49.80
0-60	1609.21	N.A.	82.80
0-80	1917.74	N.A.	98.70
0-90	1943.1	N.A.	100.00
10-90	1868.14	N.A.	96.10
20-40	678.95	N.A.	34.90
20-50	1029.93	N.A.	53.00
40-70	844.59	N.A.	43.50
60-80	308.54	N.A.	15.90
70-80	105.92	N.A.	5.50
80-90	25.36	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	1943.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	74.96
10-20	213.32
20-30	315.70
30-40	363.25
40-50	350.98
50-60	291.00
60-70	202.61
70-80	105.92
80-90	25.36
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

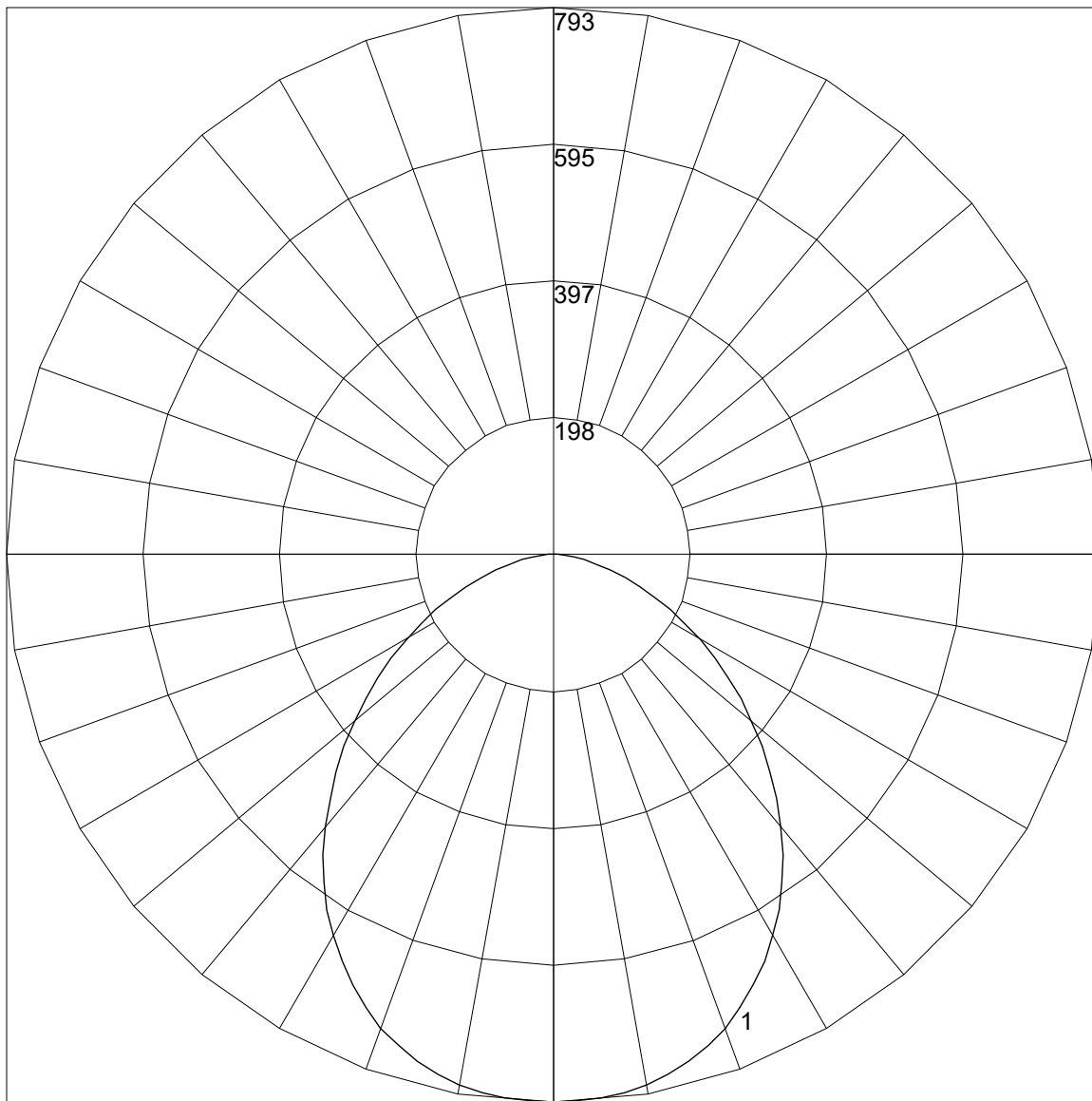
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 793 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)