

# 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-B-8-TW-ITL85139.904.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL85139.904 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]08/16/15  
[ISSUE DATE]04/20/16  
[MANUFAC]FINELITE, INC.  
[LUMCAT]HPR-LED-A-1X1-DCO-B-8-TW  
[OTHER]ies file is based on 3500K; see luminaire tech sheet at [www.finelite.com](http://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, 23.4 WATTS  
[ABSOLUTE LUMENS]1914  
[OTHER]see [www.finelite.com](http://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](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	1914
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	21.7
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	8036	8036	8036
55	7229	7140	7073
65	6359	6147	6057
75	5390	5044	4796
85	4112	2937	2790

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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	792	792	792	792	792
2.5	791	791	791	791	791
5.0	787	787	788	787	788
7.5	781	781	781	781	782
10.0	771	772	773	773	774
12.5	760	761	761	762	763
15.0	746	747	747	749	749
17.5	730	731	731	733	734
20.0	711	712	713	715	717
22.5	691	692	692	695	697
25.0	669	669	670	672	674
27.5	645	645	646	648	650
30.0	619	620	620	622	624
32.5	592	592	593	595	597
35.0	565	564	565	566	569
37.5	535	534	536	537	539
40.0	505	504	505	506	508
42.5	475	474	475	475	477
45.0	444	444	444	444	444
47.5	414	412	413	411	412
50.0	384	381	382	380	380
52.5	353	351	351	348	348
55.0	324	322	320	317	317
57.5	295	293	289	286	286
60.0	266	264	260	256	257
62.5	237	236	231	227	228
65.0	210	208	203	200	200
67.5	183	182	176	173	173
70.0	157	156	150	147	147
72.5	132	131	126	122	121
75.0	109	107	102	98	97
77.5	86	85	79	74	73
80.0	66	63	57	52	51
82.5	46	44	37	34	32
85.0	28	25	20	20	19
87.5	11	10	9	9	8
90.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	285.28	N.A.	14.90
0-30	593.88	N.A.	31.00
0-40	947.12	N.A.	49.50
0-60	1575.54	N.A.	82.30
0-80	1886.79	N.A.	98.60
0-90	1913.67	N.A.	100.00
10-90	1838.98	N.A.	96.10
20-40	661.84	N.A.	34.60
20-50	1004.1	N.A.	52.50
40-70	830.88	N.A.	43.40
60-80	311.26	N.A.	16.30
70-80	108.78	N.A.	5.70
80-90	26.88	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	1913.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	74.69
10-20	210.60
20-30	308.59
30-40	353.25
40-50	342.26
50-60	286.15
60-70	202.47
70-80	108.78
80-90	26.88
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

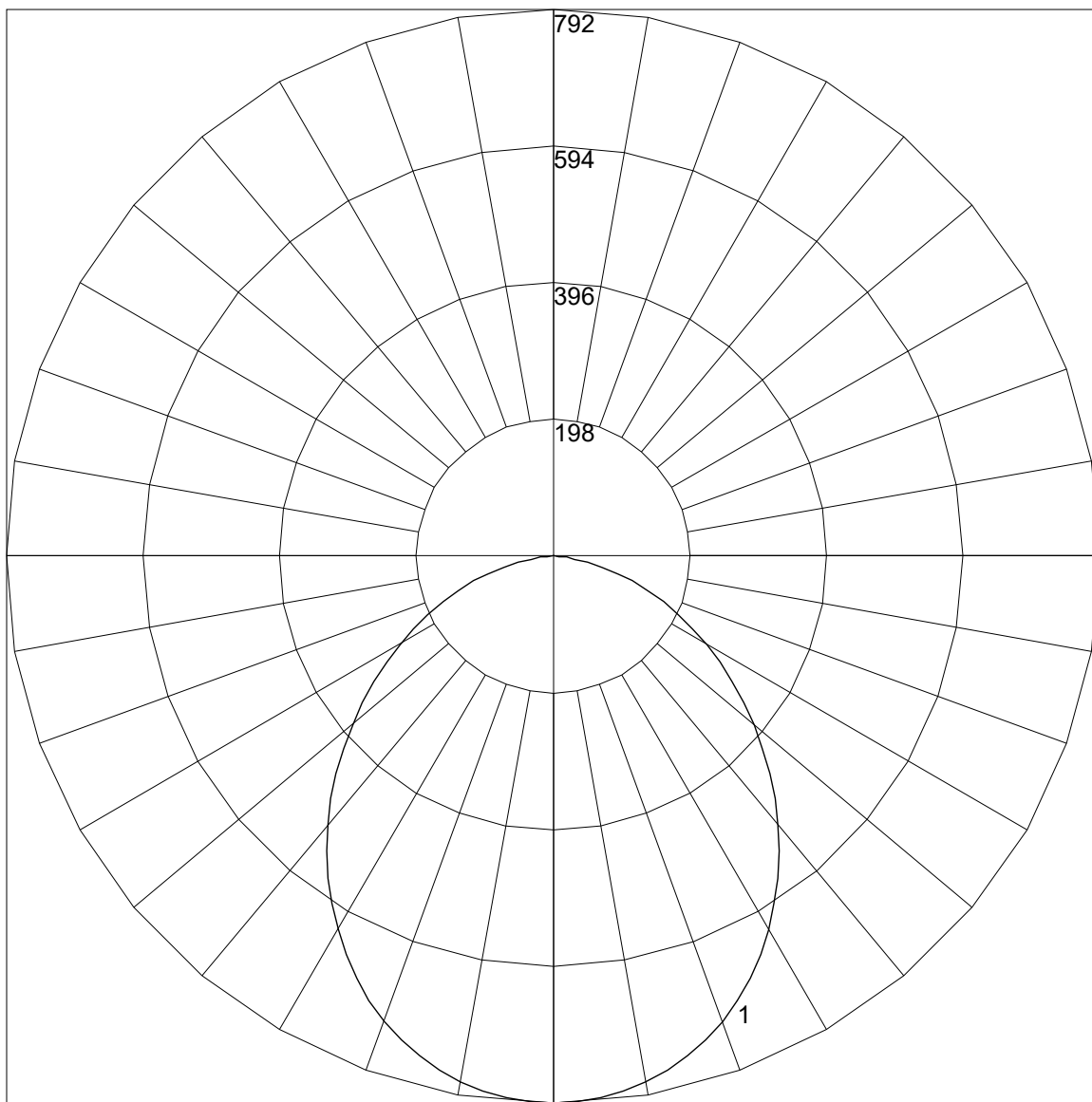
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	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	75	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	54	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 = 792 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)