

# 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-2X4-DCO-V-8-TW-ITL85145.900.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85145.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE] 08/20/15

[ISSUEDATE]04/15/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-F-2X4-DCO-V-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, 60.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 60.1 WATTS

[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85145. 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)

[\_ABSOLUTELUMENS]6979

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6979
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	60.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	1.81 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3579	3561	3568
55	3238	3227	3203
65	2857	2835	2787
75	2398	2350	2326
85	1829	1723	1581

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**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	2741	2741	2741	2741	2741
<b>2.5</b>	2739	2739	2739	2738	2738
<b>5.0</b>	2730	2728	2728	2727	2727
<b>7.5</b>	2713	2711	2710	2708	2707
<b>10.0</b>	2685	2684	2683	2682	2678
<b>12.5</b>	2652	2648	2650	2647	2645
<b>15.0</b>	2613	2607	2609	2605	2602
<b>17.5</b>	2566	2561	2559	2555	2555
<b>20.0</b>	2511	2506	2502	2498	2498
<b>22.5</b>	2449	2444	2441	2436	2436
<b>25.0</b>	2380	2374	2371	2366	2367
<b>27.5</b>	2305	2298	2294	2290	2292
<b>30.0</b>	2223	2216	2213	2209	2211
<b>32.5</b>	2135	2129	2125	2122	2124
<b>35.0</b>	2043	2036	2033	2030	2033
<b>37.5</b>	1946	1940	1937	1934	1938
<b>40.0</b>	1845	1838	1836	1834	1837
<b>42.5</b>	1741	1735	1733	1731	1735
<b>45.0</b>	1635	1628	1627	1626	1630
<b>47.5</b>	1526	1520	1520	1519	1522
<b>50.0</b>	1417	1412	1412	1410	1413
<b>52.5</b>	1308	1303	1303	1305	1297
<b>55.0</b>	1200	1195	1196	1195	1187
<b>57.5</b>	1093	1091	1091	1086	1083
<b>60.0</b>	986	984	984	978	974
<b>62.5</b>	882	880	878	872	869
<b>65.0</b>	780	778	774	766	761
<b>67.5</b>	679	678	673	665	661
<b>70.0</b>	582	583	576	569	565
<b>72.5</b>	489	490	482	479	477
<b>75.0</b>	401	400	393	388	389
<b>77.5</b>	317	315	310	306	306
<b>80.0</b>	239	236	232	229	229
<b>82.5</b>	168	166	163	157	157
<b>85.0</b>	103	100	97	91	89
<b>87.5</b>	43	41	34	30	29
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	993.89	N.A.	14.20
0-30	2085.25	N.A.	29.90
0-40	3356.58	N.A.	48.10
0-60	5681.47	N.A.	81.40
0-80	6867.55	N.A.	98.40
0-90	6979.00	N.A.	100.00
10-90	6720.03	N.A.	96.30
20-40	2362.69	N.A.	33.90
20-50	3618.24	N.A.	51.80
40-70	3091.21	N.A.	44.30
60-80	1186.08	N.A.	17.00
70-80	419.77	N.A.	6.00
80-90	111.45	N.A.	1.60
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	6979.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	258.97
10-20	734.92
20-30	1091.37
30-40	1271.33
40-50	1255.55
50-60	1069.35
60-70	766.32
70-80	419.77
80-90	111.45
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

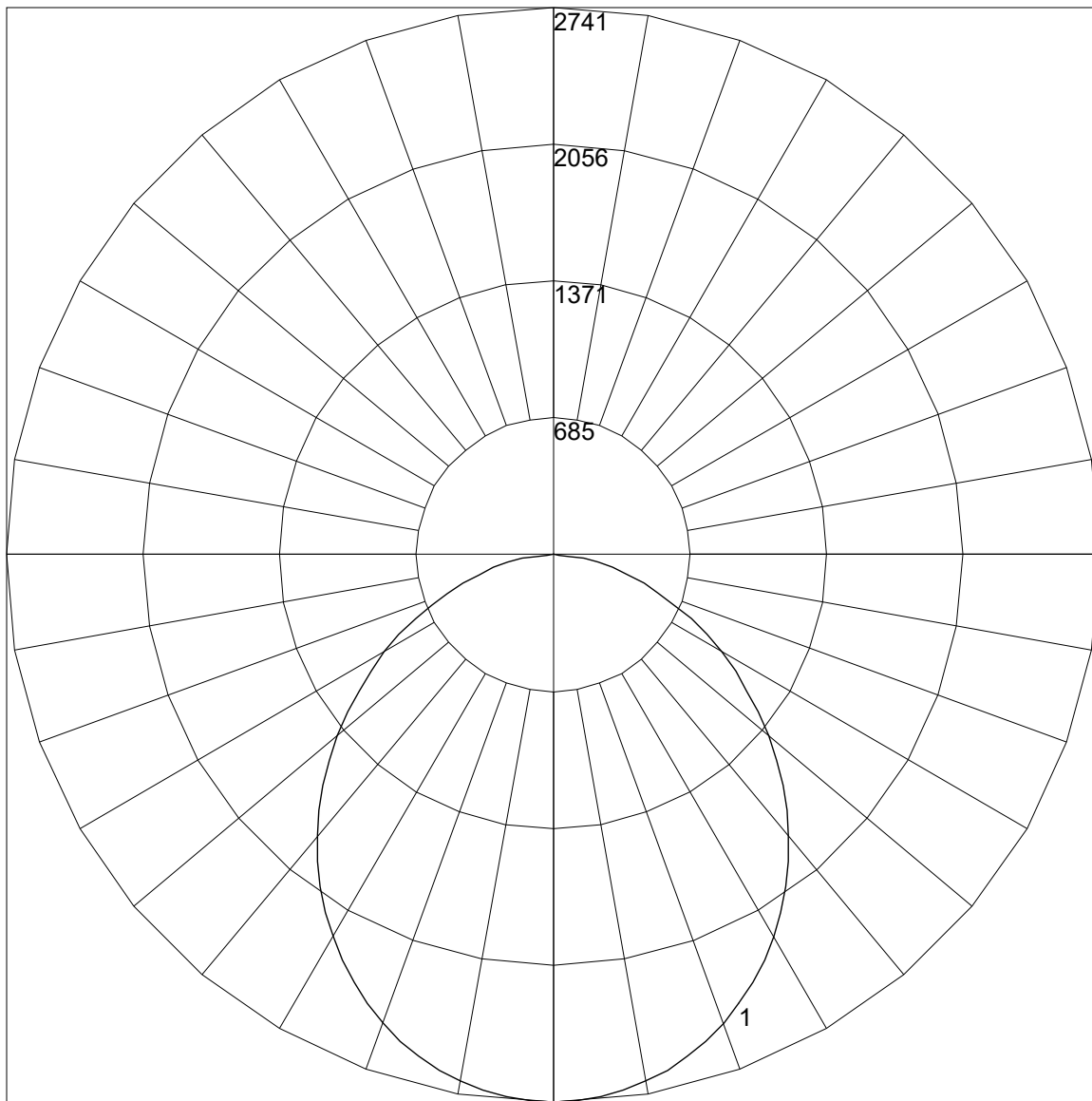
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 2741 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)