

# 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-WAV-2X4-V-8-TW-ITL85837.900.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL85837.900 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE] 10/16/15  
[ISSUEDATE]04/15/16  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE HPR-LED-WAV-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 ITL85837. 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]7069

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7069
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
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)	1.34
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	3539	3574	3601
55	3316	3354	3370
65	3021	3087	3139
75	2536	2697	2835
85	1581	2184	2451

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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>	2634	2634	2634	2634	2634
<b>2.5</b>	2631	2630	2631	2630	2630
<b>5.0</b>	2621	2620	2620	2620	2620
<b>7.5</b>	2603	2603	2603	2602	2603
<b>10.0</b>	2575	2576	2579	2581	2580
<b>12.5</b>	2539	2542	2547	2551	2549
<b>15.0</b>	2501	2502	2510	2513	2511
<b>17.5</b>	2457	2456	2464	2468	2467
<b>20.0</b>	2404	2403	2412	2417	2415
<b>22.5</b>	2345	2344	2354	2360	2358
<b>25.0</b>	2281	2281	2291	2298	2296
<b>27.5</b>	2212	2210	2223	2229	2227
<b>30.0</b>	2138	2139	2150	2155	2159
<b>32.5</b>	2060	2060	2072	2080	2082
<b>35.0</b>	1977	1978	1990	1998	2000
<b>37.5</b>	1891	1893	1906	1913	1916
<b>40.0</b>	1802	1804	1817	1824	1827
<b>42.5</b>	1711	1714	1726	1735	1738
<b>45.0</b>	1617	1621	1633	1642	1645
<b>47.5</b>	1521	1526	1539	1546	1551
<b>50.0</b>	1425	1428	1443	1450	1450
<b>52.5</b>	1328	1329	1345	1352	1353
<b>55.0</b>	1229	1232	1243	1252	1249
<b>57.5</b>	1130	1135	1146	1151	1159
<b>60.0</b>	1028	1033	1044	1050	1058
<b>62.5</b>	927	933	944	950	957
<b>65.0</b>	825	832	843	850	857
<b>67.5</b>	724	730	742	751	758
<b>70.0</b>	623	630	644	653	662
<b>72.5</b>	522	530	545	557	566
<b>75.0</b>	424	432	451	464	474
<b>77.5</b>	330	339	360	375	384
<b>80.0</b>	242	252	275	290	299
<b>82.5</b>	161	172	196	212	217
<b>85.0</b>	89	102	123	135	138
<b>87.5</b>	33	42	57	62	63
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	955.78	N.A.	13.50
0-30	2010.05	N.A.	28.40
0-40	3253.69	N.A.	46.00
0-60	5623.14	N.A.	79.60
0-80	6932.9	N.A.	98.10
0-90	7068.59	N.A.	100.00
10-90	6819.81	N.A.	96.50
20-40	2297.91	N.A.	32.50
20-50	3556.41	N.A.	50.30
40-70	3202.5	N.A.	45.30
60-80	1309.75	N.A.	18.50
70-80	476.71	N.A.	6.70
80-90	135.70	N.A.	1.90
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	7068.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	248.78
10-20	707.00
20-30	1054.27
30-40	1243.64
40-50	1258.5
50-60	1110.95
60-70	833.05
70-80	476.71
80-90	135.70
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

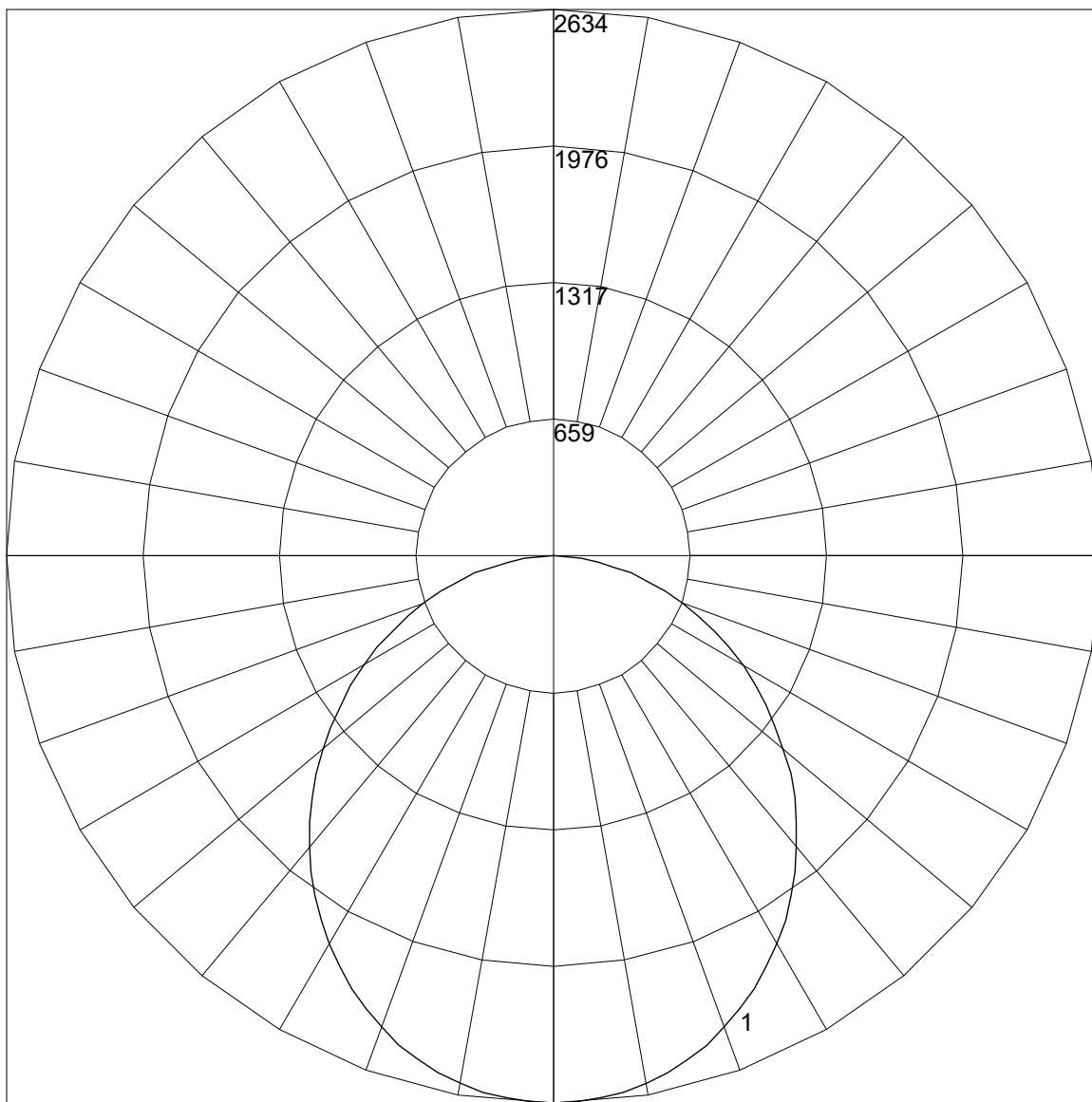
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	80	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 2634 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)