

# 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-2X2-DCO-V-8-TW-ITL85142.900.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85142.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/18/15

[ISSUEDATE]04/15/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-F-2X2-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, 63.9 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 62.9 WATTS

[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85142. 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)

[\_ABSOLUTE]LUMENS]6436

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6436
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	63.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.82 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	6789	6877	7038
55	6100	6202	6333
65	5337	5406	5530
75	4477	4489	4615
85	3361	3174	3174

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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>	2574	2574	2574	2574	2574
<b>2.5</b>	2572	2571	2571	2571	2571
<b>5.0</b>	2561	2561	2560	2559	2560
<b>7.5</b>	2543	2542	2542	2541	2542
<b>10.0</b>	2519	2517	2515	2514	2514
<b>12.5</b>	2483	2482	2481	2482	2483
<b>15.0</b>	2440	2439	2441	2442	2444
<b>17.5</b>	2391	2389	2392	2395	2398
<b>20.0</b>	2332	2333	2337	2344	2347
<b>22.5</b>	2269	2269	2275	2283	2288
<b>25.0</b>	2199	2199	2207	2217	2224
<b>27.5</b>	2122	2122	2133	2147	2153
<b>30.0</b>	2038	2040	2052	2070	2076
<b>32.5</b>	1952	1955	1967	1988	1994
<b>35.0</b>	1861	1863	1877	1900	1907
<b>37.5</b>	1766	1769	1784	1808	1816
<b>40.0</b>	1668	1671	1690	1713	1721
<b>42.5</b>	1577	1573	1594	1616	1628
<b>45.0</b>	1475	1473	1494	1517	1529
<b>47.5</b>	1373	1373	1394	1416	1427
<b>50.0</b>	1272	1272	1293	1314	1323
<b>52.5</b>	1173	1173	1193	1211	1219
<b>55.0</b>	1075	1074	1093	1109	1116
<b>57.5</b>	979	977	995	1008	1015
<b>60.0</b>	880	880	894	909	910
<b>62.5</b>	783	787	796	807	813
<b>65.0</b>	693	696	702	712	718
<b>67.5</b>	605	605	612	621	626
<b>70.0</b>	519	519	524	532	537
<b>72.5</b>	436	436	438	443	451
<b>75.0</b>	356	354	357	362	367
<b>77.5</b>	280	280	282	284	289
<b>80.0</b>	211	209	210	213	216
<b>82.5</b>	147	145	146	147	148
<b>85.0</b>	90	87	85	83	85
<b>87.5</b>	38	34	31	29	30
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	930.83	N.A.	14.50
0-30	1947.2	N.A.	30.30
0-40	3122.69	N.A.	48.50
0-60	5254.39	N.A.	81.60
0-80	6335.2	N.A.	98.40
0-90	6435.75	N.A.	100.00
10-90	6192.78	N.A.	96.20
20-40	2191.86	N.A.	34.10
20-50	3345.78	N.A.	52.00
40-70	2830.25	N.A.	44.00
60-80	1080.81	N.A.	16.80
70-80	382.26	N.A.	5.90
80-90	100.55	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	6435.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	242.97
10-20	687.86
20-30	1016.37
30-40	1175.49
40-50	1153.92
50-60	977.78
60-70	698.55
70-80	382.26
80-90	100.55
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

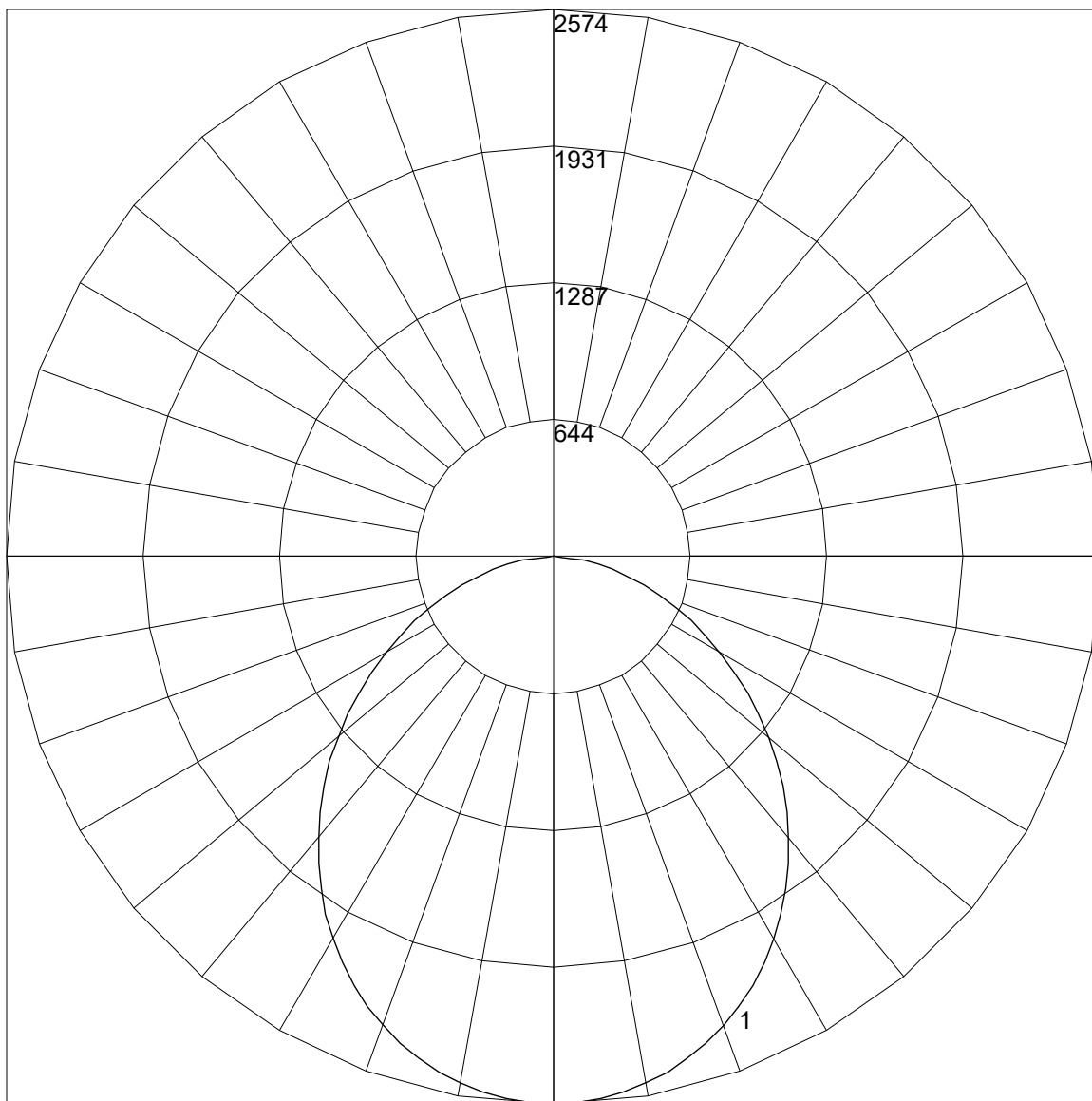
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	45	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 2574 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)