

# 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-DD-V-8-TW-ITL85154.900.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85154.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/27/15

[ISSUEDATE]04/15/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-F-2X2-DD-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, 64.1 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 63.0 WATTS

[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85154. 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]5154

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5154
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	64.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.20
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	5431	5454	5496
55	4891	4920	4965
65	4328	4351	4428
75	3672	3697	3735
85	2875	2875	2875

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2080	2080	2080	2080	2080
2.5	2078	2078	2078	2078	2077
5.0	2069	2068	2069	2068	2069
7.5	2052	2052	2053	2053	2053
10.0	2033	2032	2031	2031	2029
12.5	2001	2001	2002	2002	2002
15.0	1964	1965	1966	1967	1968
17.5	1923	1924	1926	1926	1928
20.0	1875	1876	1879	1880	1881
22.5	1821	1823	1826	1828	1830
25.0	1763	1766	1769	1772	1773
27.5	1699	1703	1707	1710	1712
30.0	1634	1636	1640	1644	1647
32.5	1567	1566	1569	1575	1577
35.0	1494	1493	1497	1503	1505
37.5	1414	1417	1421	1427	1430
40.0	1339	1339	1343	1350	1352
42.5	1259	1259	1265	1270	1273
45.0	1180	1179	1185	1191	1194
47.5	1100	1099	1105	1111	1114
50.0	1020	1020	1026	1031	1034
52.5	941	940	946	951	955
55.0	862	862	867	873	875
57.5	785	785	791	795	801
60.0	709	709	715	718	724
62.5	634	634	638	643	648
65.0	562	561	565	569	575
67.5	491	490	494	497	500
70.0	423	422	424	428	431
72.5	355	356	359	362	364
75.0	292	293	294	297	297
77.5	232	233	234	236	236
80.0	176	177	178	180	179
82.5	124	125	126	127	127
85.0	77	77	77	78	77
87.5	32	32	32	30	28
90.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	750.19	N.A.	14.60
0-30	1563.91	N.A.	30.30
0-40	2499.86	N.A.	48.50
0-60	4191.22	N.A.	81.30
0-80	5066.12	N.A.	98.30
0-90	5154.04	N.A.	100.00
10-90	4957.79	N.A.	96.20
20-40	1749.67	N.A.	33.90
20-50	2664.25	N.A.	51.70
40-70	2252.58	N.A.	43.70
60-80	874.90	N.A.	17.00
70-80	313.68	N.A.	6.10
80-90	87.91	N.A.	1.70
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	5154.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	196.25
10-20	553.94
20-30	813.72
30-40	935.94
40-50	914.58
50-60	776.78
60-70	561.22
70-80	313.68
80-90	87.91
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

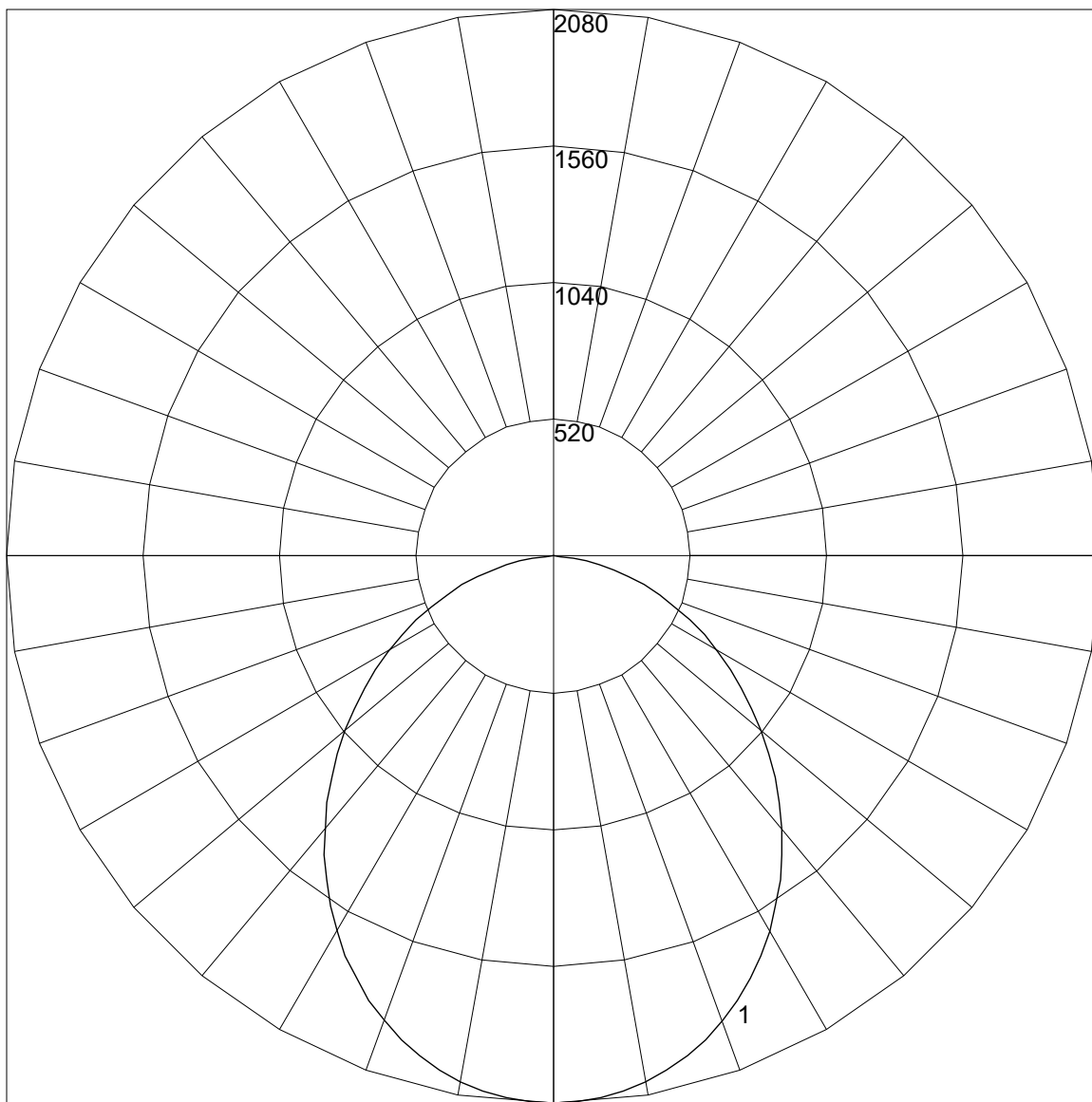
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	80	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	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	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	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 2080 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)