

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-EP-ANR-2X2-DCO-V-8-TW-ITL85150.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85150.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE] 08/25/15

[ISSUEDATE]04/15/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-EP-ANR-2X2-DCO-V-8-TW

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 64.2 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 63.6 WATTS

[_ABSOLUTE]LUMENS]5796

[OTHER]see www.finelite.com for source file ITL85150. 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5796
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	64.2
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)	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	6265	6196	6209
55	5913	5828	5839
65	5437	5299	5299
75	4590	4452	4452
85	3137	3025	2950

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-EP-ANR-2X2-DCO-V-8-TW-ITL85150.900.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2163	2163	2163	2163	2163
2.5	2161	2162	2162	2162	2162
5.0	2154	2154	2154	2153	2152
7.5	2140	2140	2139	2138	2138
10.0	2120	2122	2118	2116	2115
12.5	2095	2094	2092	2089	2088
15.0	2063	2062	2060	2057	2056
17.5	2025	2024	2021	2020	2019
20.0	1983	1982	1979	1978	1976
22.5	1938	1934	1932	1931	1931
25.0	1888	1883	1881	1880	1880
27.5	1832	1827	1825	1825	1825
30.0	1772	1767	1765	1765	1766
32.5	1710	1705	1702	1703	1703
35.0	1645	1639	1636	1638	1638
37.5	1576	1570	1568	1569	1570
40.0	1506	1499	1496	1497	1499
42.5	1436	1425	1423	1423	1425
45.0	1361	1350	1346	1347	1349
47.5	1284	1272	1268	1269	1271
50.0	1202	1193	1189	1189	1192
52.5	1123	1113	1108	1107	1111
55.0	1042	1031	1027	1025	1029
57.5	960	949	944	942	945
60.0	876	864	859	855	860
62.5	792	779	774	770	775
65.0	706	696	688	684	688
67.5	621	610	603	598	603
70.0	536	525	517	514	519
72.5	452	441	435	431	433
75.0	365	360	354	350	354
77.5	286	280	275	274	274
80.0	212	207	203	203	204
82.5	144	141	139	138	138
85.0	84	83	81	79	79
87.5	33	34	33	34	34
90.0	0	0	0	0	0

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-EP-ANR-2X2-DCO-V-8-TW-ITL85150.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	785.10	N.A.	13.50
0-30	1651.74	N.A.	28.50
0-40	2676.4	N.A.	46.20
0-60	4637.09	N.A.	80.00
0-80	5698.96	N.A.	98.30
0-90	5796.09	N.A.	100.00
10-90	5591.65	N.A.	96.50
20-40	1891.3	N.A.	32.60
20-50	2931.98	N.A.	50.60
40-70	2644.64	N.A.	45.60
60-80	1061.86	N.A.	18.30
70-80	377.92	N.A.	6.50
80-90	97.14	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	5796.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	204.44
10-20	580.66
20-30	866.64
30-40	1024.66
40-50	1040.67
50-60	920.02
60-70	683.95
70-80	377.92
80-90	97.13
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

IES INDOOR REPORT

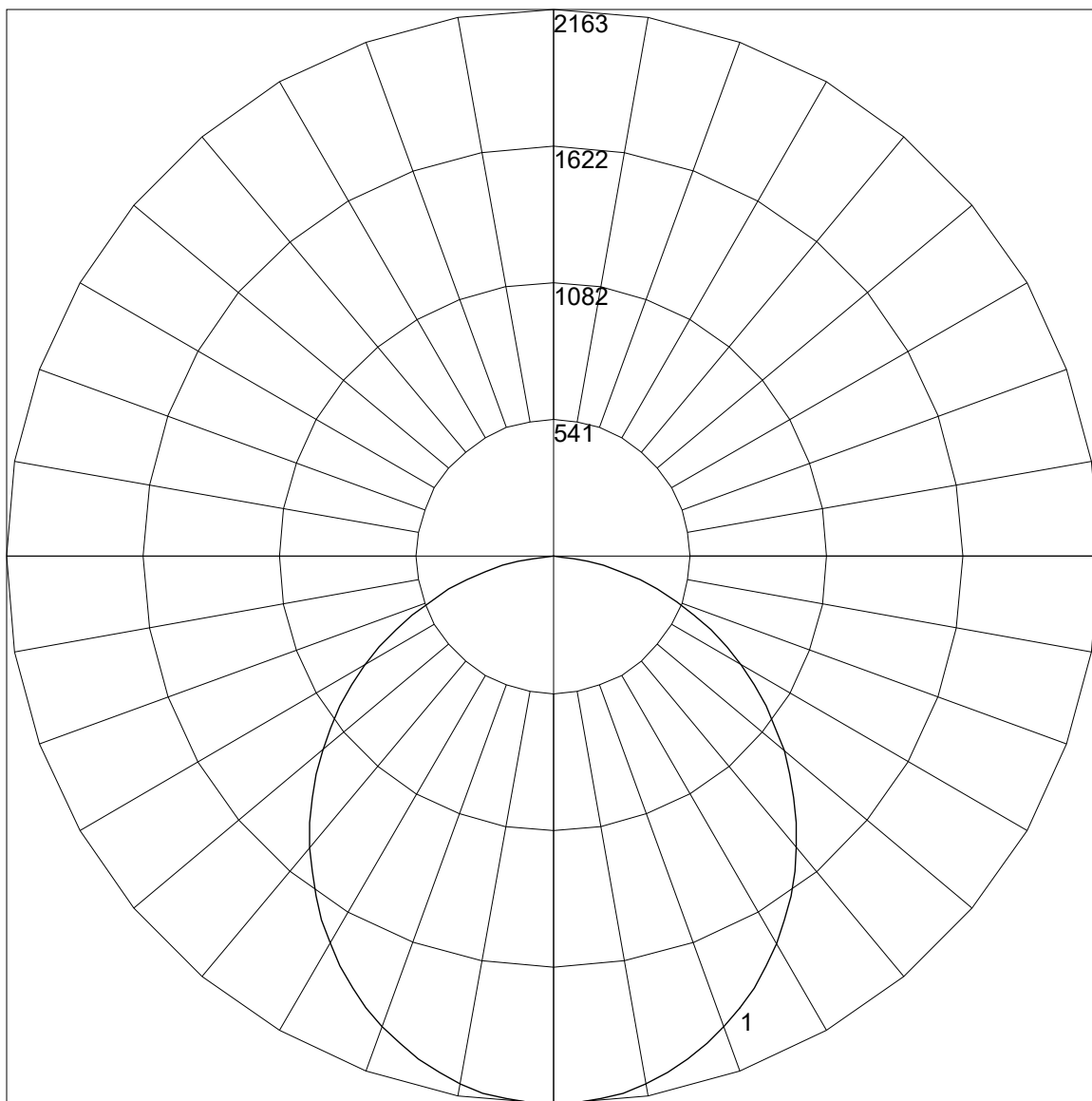
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 2163 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)