

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-A-2X2-DCO-V-8-35-ITL85144.004.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85144.004 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/19/15

[ISSUEDATE]04/15/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-EP-A-2X2-DCO-V-8-35

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 58.3 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 57.3 WATTS

[ABSOLUTE]LUMENS]5871

[OTHER]see www.finelite.com for source file ITL85144. 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	5871
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	58.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
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	6269	6297	6380
55	5947	5970	6032
65	5483	5453	5530
75	4653	4565	4628
85	3137	2913	2988

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2149	2149	2149	2149	2149
2.5	2146	2147	2147	2147	2147
5.0	2139	2139	2139	2139	2139
7.5	2125	2126	2125	2126	2126
10.0	2109	2109	2107	2106	2106
12.5	2082	2082	2081	2082	2083
15.0	2051	2052	2052	2054	2054
17.5	2016	2016	2016	2020	2021
20.0	1975	1975	1978	1981	1983
22.5	1928	1930	1933	1937	1940
25.0	1879	1880	1883	1890	1894
27.5	1828	1826	1831	1839	1840
30.0	1769	1769	1773	1783	1786
32.5	1710	1708	1713	1723	1728
35.0	1645	1643	1649	1662	1665
37.5	1578	1576	1584	1596	1599
40.0	1508	1507	1515	1527	1531
42.5	1436	1435	1443	1454	1460
45.0	1362	1361	1368	1380	1386
47.5	1286	1285	1292	1304	1310
50.0	1209	1207	1214	1226	1230
52.5	1130	1127	1134	1145	1148
55.0	1048	1046	1052	1060	1063
57.5	966	963	969	976	978
60.0	882	879	883	889	891
62.5	798	794	796	801	802
65.0	712	708	708	713	718
67.5	625	623	619	624	629
70.0	539	538	534	536	540
72.5	454	451	447	449	452
75.0	370	367	363	365	368
77.5	289	286	281	284	287
80.0	214	211	206	208	208
82.5	145	142	138	140	141
85.0	84	82	78	79	80
87.5	33	31	29	28	29
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	782.05	N.A.	13.30
0-30	1650.4	N.A.	28.10
0-40	2683.84	N.A.	45.70
0-60	4682.59	N.A.	79.80
0-80	5774.29	N.A.	98.40
0-90	5870.91	N.A.	100.00
10-90	5667.74	N.A.	96.50
20-40	1901.79	N.A.	32.40
20-50	2959.1	N.A.	50.40
40-70	2701.96	N.A.	46.00
60-80	1091.7	N.A.	18.60
70-80	388.48	N.A.	6.60
80-90	96.61	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	5870.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	203.17
10-20	578.89
20-30	868.35
30-40	1033.44
40-50	1057.31
50-60	941.44
60-70	703.21
70-80	388.48
80-90	96.61
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

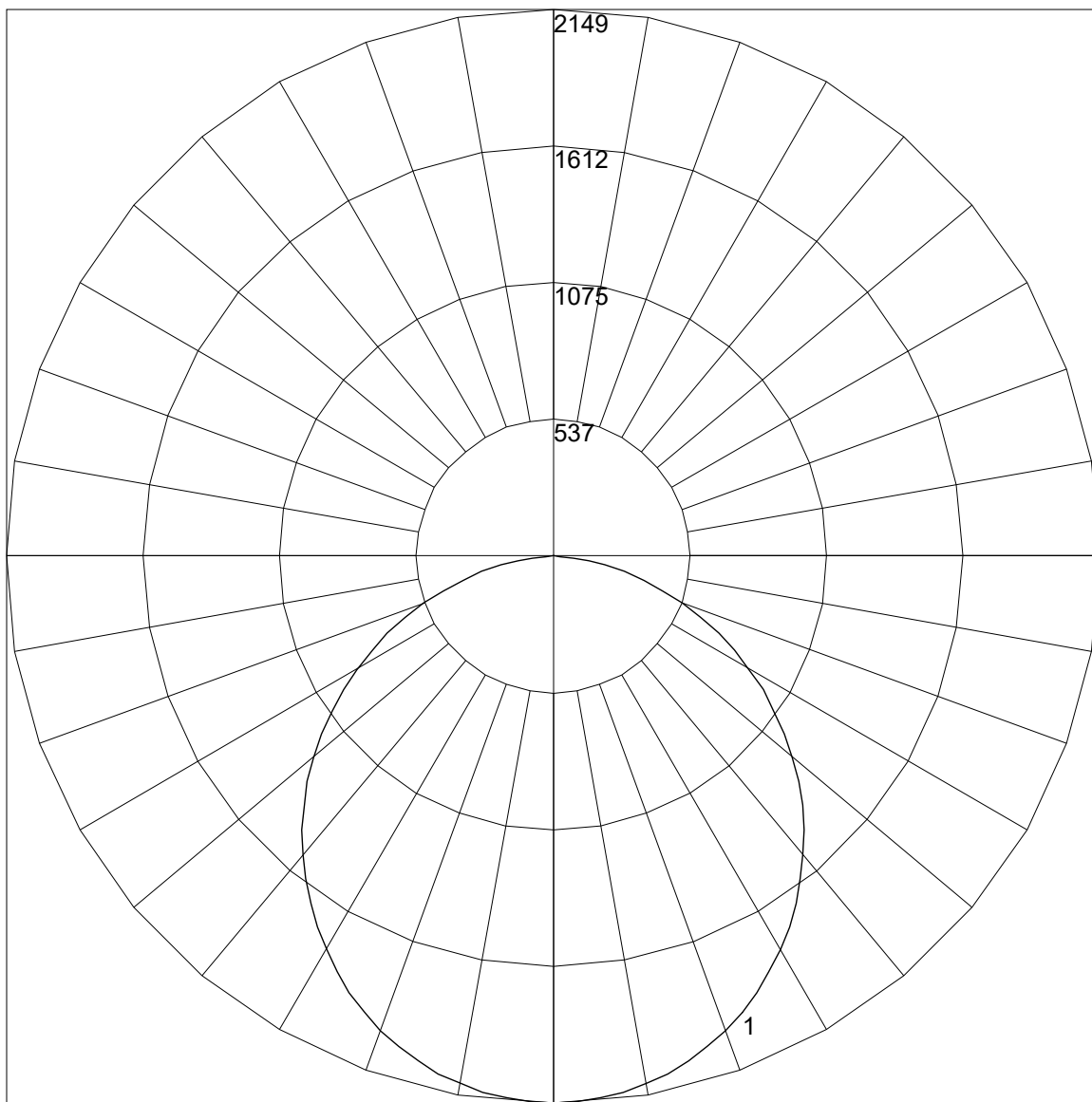
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	94	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	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	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

POLAR GRAPH



Maximum Candela = 2149 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)