

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-ANR-2X4-DCO-H-8-35-ITL85151.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85151.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/24/15

[ISSUEDATE]04/27/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-ANR-2X4-DCO-H-8-35

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.5 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.4 WATTS

[ABSOLUTE]LUMENS]5283

[OTHER]see www.finelite.com for source file ITL85151. 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	5283
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	40.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.28
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	2759	2669	2638
55	2490	2371	2350
65	2183	2055	2032
75	1819	1694	1638
85	1378	1227	1061

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2164.436	2164.436	2164.436	2164.436	2164.436
2.5	2162.884	2162.108	2161.332	2161.332	2161.332
5.0	2154.347	2152.019	2151.243	2148.915	2148.139
7.5	2140.378	2137.274	2133.394	2129.514	2128.737
10.0	2117.873	2113.216	2109.336	2103.903	2102.351
12.5	2089.934	2082.174	2079.069	2072.861	2069.757
15.0	2057.340	2048.803	2043.371	2034.058	2030.178
17.5	2018.537	2006.896	1999.135	1987.494	1985.166
20.0	1971.973	1961.108	1949.467	1936.274	1933.946
22.5	1921.529	1909.112	1895.143	1879.622	1875.741
25.0	1864.100	1849.355	1833.834	1819.865	1814.432
27.5	1805.896	1787.270	1770.197	1753.900	1748.467
30.0	1739.154	1718.977	1699.575	1684.830	1678.622
32.5	1667.757	1648.355	1625.073	1611.104	1608.776
35.0	1592.479	1572.301	1549.795	1533.498	1532.722
37.5	1514.097	1492.367	1469.861	1454.340	1452.788
40.0	1432.610	1410.104	1387.598	1374.405	1372.077
42.5	1344.915	1326.290	1303.784	1294.471	1288.263
45.0	1260.324	1240.923	1219.193	1209.104	1205.224
47.5	1174.181	1154.004	1133.826	1124.514	1120.633
50.0	1088.815	1068.637	1051.564	1040.699	1037.595
52.5	1007.328	980.942	963.869	956.884	953.780
55.0	922.737	896.351	878.502	873.846	870.741
57.5	838.923	813.313	796.239	796.239	789.255
60.0	755.884	731.826	715.529	714.753	708.544
62.5	675.174	651.892	637.923	637.147	630.938
65.0	596.015	574.286	561.093	560.317	554.884
67.5	518.409	497.456	488.143	485.039	480.382
70.0	443.907	426.834	415.969	413.641	408.985
72.5	371.734	356.212	347.676	344.571	340.691
75.0	304.216	291.023	283.263	279.382	273.950
77.5	239.803	228.162	222.730	218.849	214.193
80.0	180.822	171.510	166.077	162.973	158.317
82.5	126.498	120.290	117.961	110.977	107.097
85.0	77.606	73.726	69.069	61.309	59.757
87.5	33.371	31.819	27.938	26.386	27.938
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	779.22	N.A.	14.70
0-30	1624.06	N.A.	30.70
0-40	2595.32	N.A.	49.10
0-60	4334.31	N.A.	82.00
0-80	5202.08	N.A.	98.50
0-90	5283.05	N.A.	100.00
10-90	5079.05	N.A.	96.10
20-40	1816.1	N.A.	34.40
20-50	2761.32	N.A.	52.30
40-70	2302.23	N.A.	43.60
60-80	867.77	N.A.	16.40
70-80	304.53	N.A.	5.80
80-90	80.97	N.A.	1.50
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	5283.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	204.00
10-20	575.22
20-30	844.84
30-40	971.26
40-50	945.22
50-60	793.77
60-70	563.24
70-80	304.53
80-90	80.97
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

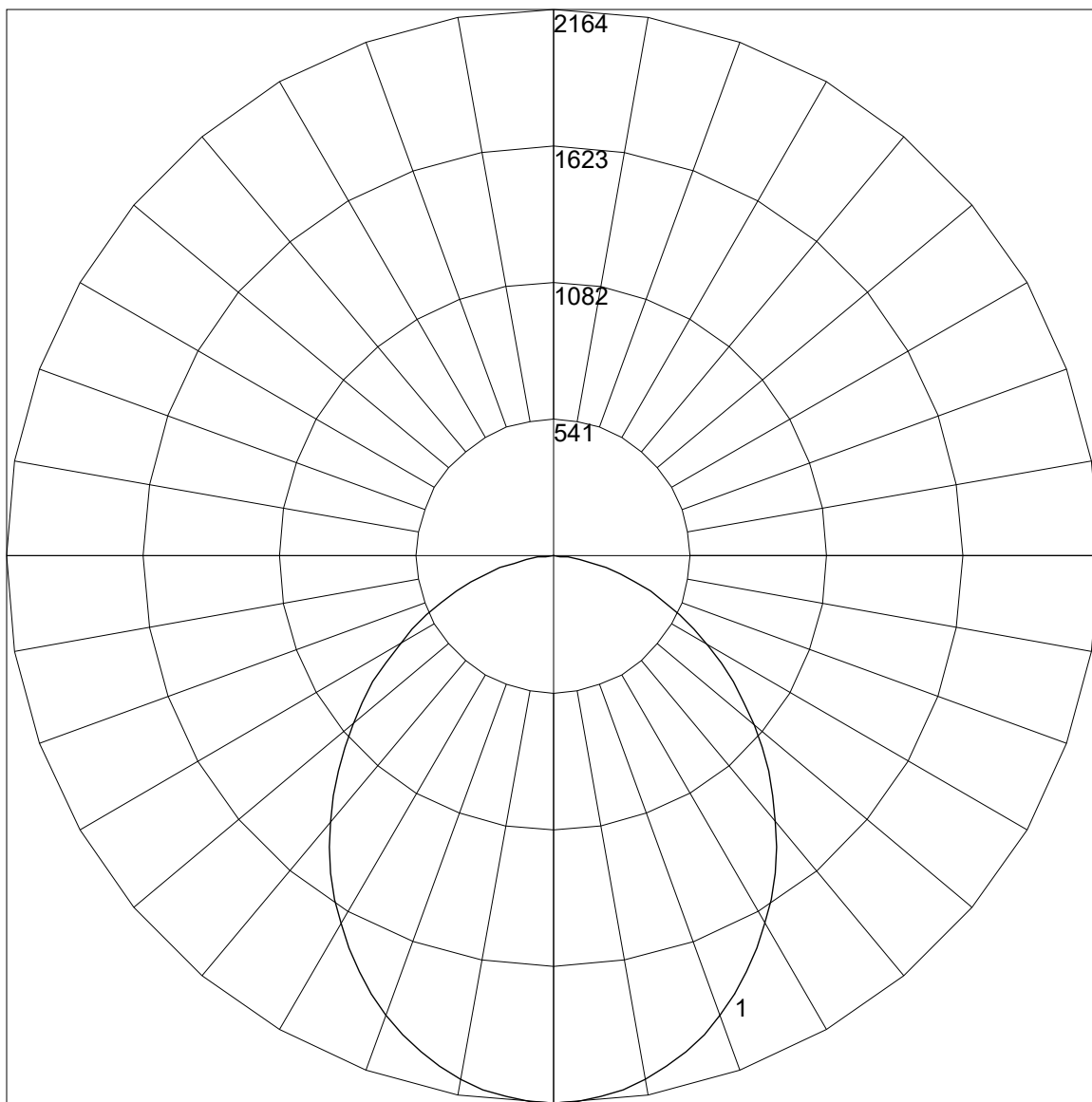
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 2164.436 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)