

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-2X4-DCO-H-8-35-ITL85152.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85152.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/28/15

[ISSUEDATE]04/27/16

[MANUFAC]FINELITE, INC.

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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.7 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.6 WATTS

[ABSOLUTE]LUMENS]5238

[OTHER]see www.finelite.com for source file ITL85152. 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	5238
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	40.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.32
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	2665	2698	2721
55	2421	2425	2429
65	2132	2109	2075
75	1796	1713	1648
85	1378	1130	1020

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-EP-ANR-2X4-DCO-H-8-35-ITL85152.003.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	2053.459	2053.459	2053.459	2053.459	2053.459
2.5	2051.131	2051.131	2051.131	2051.131	2051.131
5.0	2044.147	2043.371	2044.147	2044.147	2044.147
7.5	2030.954	2030.954	2030.954	2030.954	2031.730
10.0	2009.224	2010.000	2013.880	2013.880	2013.880
12.5	1985.166	1985.942	1991.375	1992.151	1992.927
15.0	1954.900	1954.900	1962.660	1964.212	1964.212
17.5	1917.649	1919.977	1926.961	1930.066	1931.618
20.0	1874.965	1878.846	1886.606	1890.486	1893.591
22.5	1828.402	1833.058	1841.595	1845.475	1849.355
25.0	1776.405	1780.286	1789.598	1796.583	1798.911
27.5	1718.977	1723.633	1735.274	1741.483	1745.363
30.0	1659.220	1662.324	1674.741	1682.502	1685.606
32.5	1593.255	1597.135	1609.552	1618.089	1621.969
35.0	1523.409	1527.290	1541.259	1549.795	1554.452
37.5	1450.459	1455.116	1468.309	1476.846	1482.278
40.0	1374.405	1379.062	1391.479	1400.792	1404.672
42.5	1296.799	1301.456	1313.097	1321.633	1325.514
45.0	1217.641	1220.745	1232.386	1240.147	1243.251
47.5	1137.707	1139.259	1149.347	1156.332	1157.884
50.0	1057.772	1056.996	1066.309	1072.517	1072.517
52.5	977.838	974.734	982.494	987.927	986.375
55.0	897.127	894.799	898.680	901.784	900.232
57.5	816.417	813.313	814.865	817.193	814.865
60.0	737.259	731.826	732.602	732.602	730.274
62.5	658.876	654.220	655.772	651.892	647.236
65.0	582.046	577.390	575.838	571.181	566.525
67.5	508.320	502.112	499.008	492.799	492.023
70.0	436.147	429.162	424.506	417.521	415.969
72.5	366.301	358.541	353.884	346.124	343.795
75.0	300.336	292.575	286.367	277.830	275.502
77.5	237.475	230.490	223.506	214.969	212.641
80.0	179.270	172.286	165.301	155.988	153.660
82.5	126.498	119.514	112.529	101.664	98.560
85.0	77.606	72.174	63.637	56.653	57.429
87.5	33.371	30.266	27.162	26.386	26.386
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-EP-ANR-2X4-DCO-H-8-35-ITL85152.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	746.72	N.A.	14.30
0-30	1570.11	N.A.	30.00
0-40	2531.83	N.A.	48.30
0-60	4284.06	N.A.	81.80
0-80	5159.4	N.A.	98.50
0-90	5237.6	N.A.	100.00
10-90	5043.5	N.A.	96.30
20-40	1785.11	N.A.	34.10
20-50	2733.98	N.A.	52.20
40-70	2322.38	N.A.	44.30
60-80	875.34	N.A.	16.70
70-80	305.19	N.A.	5.80
80-90	78.20	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	5237.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	194.10
10-20	552.62
20-30	823.39
30-40	961.72
40-50	948.87
50-60	803.36
60-70	570.15
70-80	305.19
80-90	78.20
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

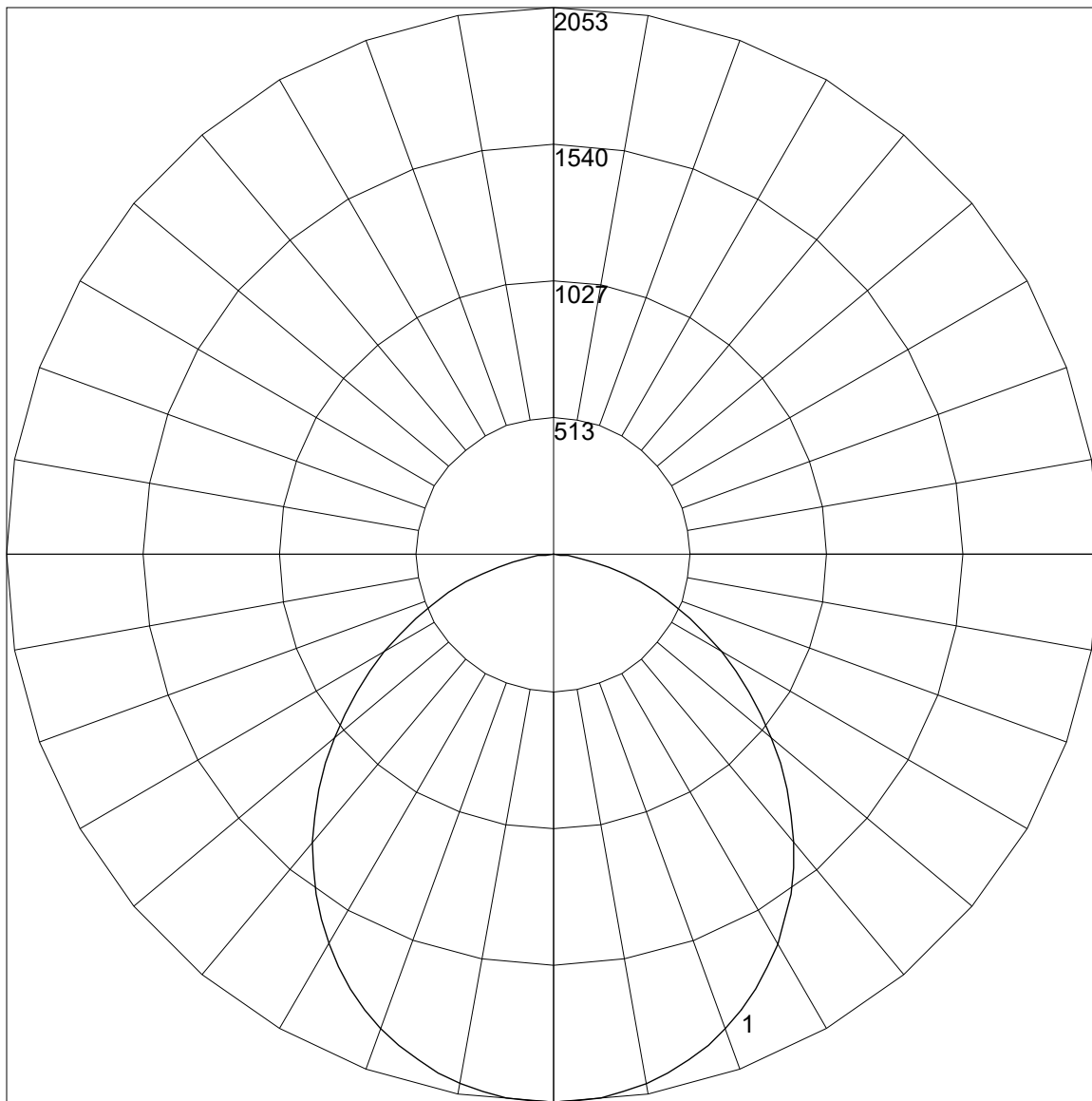
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	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	63	55	49	61	54	49	59	53	48	58	52	48	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	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 2053.459 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)