

# 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-A-1X2-DCO-V-8-35-ITL85140.007.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL85140.007 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]08/17/15  
[ISSUE DATE]04/28/16  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE HPR-LED-A-1X2-DCO-V-8-35  
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 30.4 WATTS  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 32.7 WATTS  
[ABSOLUTE LUMENS]2863  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85140. 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)

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2864
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	30.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.83 ft
Luminous Width (90-270)	0.81 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7031	6925	6758
55	6309	6122	5804
65	5590	5209	4777
75	4688	4107	3568
85	3573	2218	2095

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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	1168.631	1168.631	1168.631	1168.631	1168.631
2.5	1167.158	1167.158	1167.158	1167.158	1167.158
5.0	1162.737	1162.737	1162.737	1162.737	1164.210
7.5	1153.895	1155.368	1155.368	1156.842	1158.316
10.0	1143.579	1145.052	1145.052	1146.526	1149.473
12.5	1130.316	1130.316	1131.789	1134.737	1136.210
15.0	1112.631	1112.631	1115.579	1117.052	1120.000
17.5	1092.000	1092.000	1094.947	1097.895	1099.368
20.0	1065.473	1068.421	1069.895	1074.316	1075.789
22.5	1037.474	1040.421	1041.895	1044.842	1046.316
25.0	1008.000	1009.474	1012.421	1013.895	1013.895
27.5	974.105	975.579	977.052	978.526	978.526
30.0	937.263	938.737	940.210	940.210	938.737
32.5	897.474	900.421	900.421	898.947	898.947
35.0	857.684	859.158	859.158	854.737	854.737
37.5	814.947	816.421	814.947	807.579	807.579
40.0	772.210	772.210	767.789	760.421	756.000
42.5	728.000	726.526	720.631	711.789	705.895
45.0	682.316	680.842	672.000	661.684	655.789
47.5	636.631	632.210	623.368	611.579	605.684
50.0	588.000	585.053	576.210	562.947	555.579
52.5	542.316	539.368	527.579	512.842	505.474
55.0	496.631	493.684	481.895	465.684	456.842
57.5	453.895	448.000	434.737	417.053	409.684
60.0	409.684	403.789	389.053	371.368	362.526
62.5	366.947	359.579	344.842	327.158	318.316
65.0	324.210	316.842	302.105	284.421	277.053
67.5	281.474	275.579	259.368	243.158	235.789
70.0	240.210	235.789	219.579	204.842	198.947
72.5	201.895	197.474	181.263	166.526	162.105
75.0	166.526	160.632	145.895	132.632	126.737
77.5	131.158	126.737	112.000	100.211	95.789
80.0	98.737	94.316	81.053	69.263	66.316
82.5	69.263	63.368	51.579	42.737	42.737
85.0	42.737	36.842	26.526	25.053	25.053
87.5	19.158	13.263	11.789	10.316	10.316
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	424.84	N.A.	14.80
0-30	890.08	N.A.	31.10
0-40	1425.39	N.A.	49.80
0-60	2371.46	N.A.	82.80
0-80	2826.15	N.A.	98.70
0-90	2863.52	N.A.	100.00
10-90	2753.05	N.A.	96.10
20-40	1000.55	N.A.	34.90
20-50	1517.78	N.A.	53.00
40-70	1244.66	N.A.	43.50
60-80	454.68	N.A.	15.90
70-80	156.10	N.A.	5.50
80-90	37.37	N.A.	1.30
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	2863.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	110.47
10-20	314.37
20-30	465.24
30-40	535.31
40-50	517.23
50-60	428.84
60-70	298.58
70-80	156.10
80-90	37.37
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

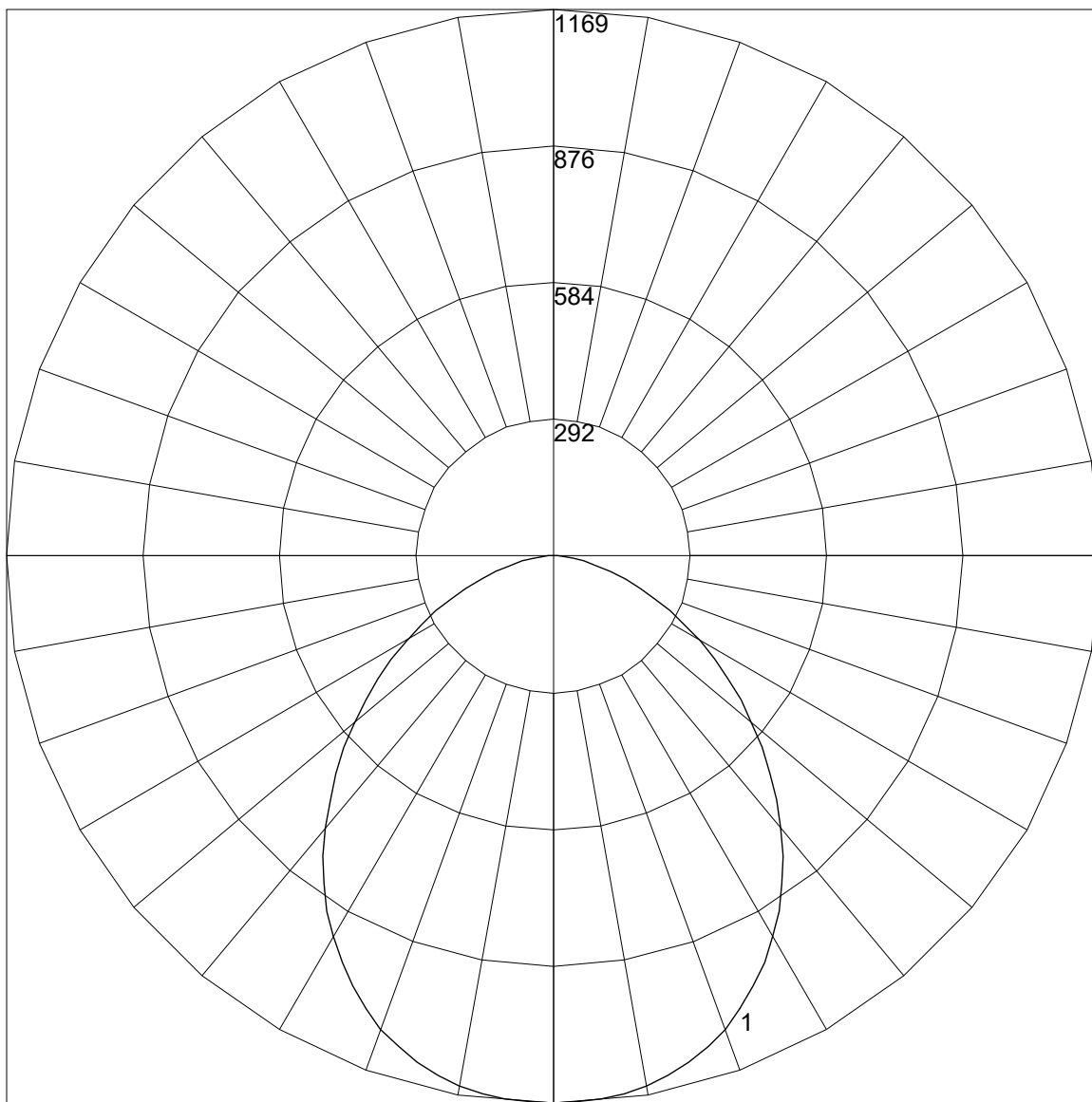
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	84	79	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

POLAR GRAPH



Maximum Candela = 1168.631 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)