

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 : HP-4-RG-4FT-S-835-ITL85129.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85129.001 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/10/15
[ISSUE DATE]02/10/17
[MANUFACTURER]FINELITE, INC.
[LUMCAT]FINELITE HP-4-RG-4ft-S-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 14.5 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 16.1 WATTS
[ABSOLUTE LUMENS]1424
[OTHER]see www.finelite.com for source file ITL85129. 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	1424
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	14.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4362	3841	3523
55	4046	3387	3013
65	3693	2839	2395
75	3239	2094	1593
85	2620	1486	1447

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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	618.947	618.947	618.947	618.947	618.947
2.5	618.129	618.129	618.129	617.719	617.719
5.0	615.672	614.854	614.035	612.807	612.807
7.5	611.170	609.532	607.485	605.029	603.801
10.0	605.029	601.345	597.661	594.386	591.520
12.5	596.842	591.520	586.199	582.105	578.012
15.0	587.427	579.240	573.509	567.778	562.865
17.5	575.965	565.322	558.363	550.994	545.672
20.0	562.456	549.357	541.988	532.982	527.251
22.5	548.129	532.982	523.567	513.333	507.193
25.0	531.345	515.789	504.327	492.047	485.497
27.5	514.152	497.778	484.269	470.351	464.620
30.0	496.550	478.538	463.801	448.246	442.105
32.5	476.901	458.070	441.696	424.912	418.772
35.0	456.842	437.193	419.181	401.579	394.620
37.5	435.965	415.906	396.257	378.246	370.877
40.0	413.860	393.801	373.333	354.503	347.134
42.5	392.982	371.696	350.000	331.170	323.392
45.0	370.468	348.772	326.257	306.608	299.240
47.5	347.134	326.257	302.924	282.865	275.497
50.0	324.620	303.333	279.591	259.532	252.573
52.5	301.696	280.409	256.257	237.018	230.058
55.0	278.772	257.895	233.333	214.094	207.544
57.5	256.667	234.971	210.819	192.398	185.439
60.0	233.333	212.047	187.895	169.883	162.924
62.5	210.409	189.532	165.789	148.596	142.047
65.0	187.485	167.836	144.094	127.719	121.579
67.5	165.380	146.140	123.216	108.070	101.930
70.0	143.275	124.854	103.158	88.421	83.099
72.5	121.579	103.977	83.918	70.000	65.497
75.0	100.702	83.918	65.088	53.216	49.532
77.5	80.643	65.497	47.895	40.936	40.117
80.0	61.813	47.485	33.567	31.930	31.520
82.5	44.211	30.702	24.152	23.333	23.333
85.0	27.427	16.784	15.556	14.737	15.146
87.5	11.462	7.778	6.959	6.550	6.959
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	219.56	N.A.	15.40
0-30	452.10	N.A.	31.80
0-40	715.28	N.A.	50.20
0-60	1181.38	N.A.	83.00
0-80	1403.74	N.A.	98.60
0-90	1423.51	N.A.	100.00
10-90	1365.41	N.A.	95.90
20-40	495.72	N.A.	34.80
20-50	749.70	N.A.	52.70
40-70	613.47	N.A.	43.10
60-80	222.37	N.A.	15.60
70-80	74.99	N.A.	5.30
80-90	19.77	N.A.	1.40
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	1423.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.10
10-20	161.46
20-30	232.54
30-40	263.18
40-50	253.98
50-60	212.12
60-70	147.38
70-80	74.99
80-90	19.77
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

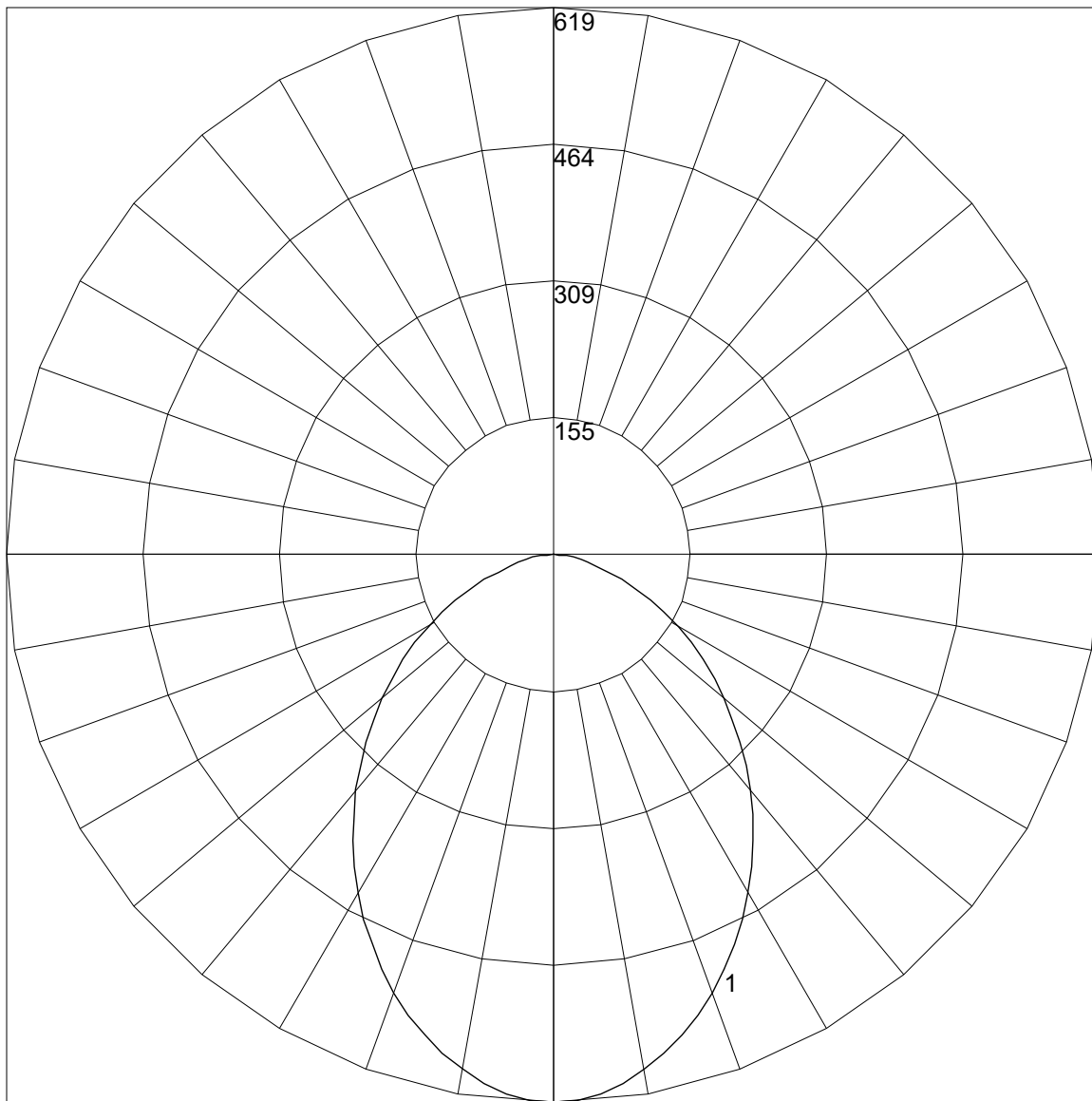
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	48	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 618.947 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)