

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-2-D-RG-4FT-B-835-RG-WCB-ABL-12H-ITL91551.206.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91551.206 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/12/19

[ISSUEDATE]06/05/19

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-D-RG-4ft-B-835-RG-WCB-ABL-12H

[_INPUT_ELECTRICAL]120.0 VOLTS, 18.2 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 19.5 WATTS

[_ABSOLUTE]LUMENS]1116

[OTHER]see www.finelite.com for source file ITL91551. 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	1116
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	18.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.08
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4223	5145	6226
55	3508	3788	4532
65	2971	3104	3352
75	2519	2612	2674
85	1939	1847	1847

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-D-RG-4FT-B-835-RG-WCB-ABL-12H-ITL91551.206.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	656.531	656.531	656.531	656.531	656.531
2.5	652.415	652.930	654.473	656.017	656.531
5.0	640.581	643.154	647.784	652.930	654.988
7.5	623.087	627.718	636.465	646.241	650.871
10.0	603.535	607.652	622.573	638.008	644.183
12.5	579.353	585.013	605.079	626.174	634.921
15.0	553.627	559.801	583.984	610.224	622.058
17.5	525.328	532.531	561.344	590.158	604.564
20.0	497.029	505.776	535.618	565.975	579.867
22.5	466.672	475.419	508.863	536.647	552.598
25.0	437.344	447.120	479.021	505.261	524.299
27.5	405.444	417.278	446.606	473.361	493.942
30.0	375.602	386.921	414.705	441.975	463.071
32.5	343.701	355.535	381.261	410.075	432.714
35.0	313.344	325.693	349.876	378.174	402.871
37.5	281.444	295.851	319.004	347.303	372.000
40.0	250.573	263.950	289.162	317.975	341.129
42.5	220.216	232.564	259.834	288.647	311.801
45.0	190.888	203.237	232.564	260.349	281.444
47.5	170.822	176.481	206.838	233.079	252.116
50.0	155.900	157.959	180.598	206.324	223.817
52.5	142.008	143.037	157.959	181.627	193.461
55.0	128.631	129.145	138.921	157.959	166.191
57.5	115.253	116.282	122.456	135.834	139.436
60.0	102.905	103.934	108.564	115.253	116.282
62.5	91.585	91.585	95.701	98.788	101.361
65.0	80.266	80.266	83.867	86.954	90.556
67.5	69.975	69.975	72.548	75.635	78.722
70.0	60.199	60.199	61.743	64.315	66.888
72.5	50.938	50.938	51.967	53.510	56.083
75.0	41.676	42.191	43.220	43.734	44.249
77.5	33.444	33.444	34.473	34.473	34.473
80.0	25.726	25.726	25.726	25.726	25.726
82.5	18.008	18.008	18.008	17.494	17.494
85.0	10.805	10.805	10.290	10.290	10.290
87.5	4.116	4.116	3.602	3.602	4.116
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-D-RG-4FT-B-835-RG-WCB-ABL-12H-ITL91551.206.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	225.14	N.A.	20.20
0-30	444.34	N.A.	39.80
0-40	664.69	N.A.	59.50
0-60	974.43	N.A.	87.30
0-80	1104.00	N.A.	98.90
0-90	1116.25	N.A.	100.00
10-90	1055.21	N.A.	94.50
20-40	439.56	N.A.	39.40
20-50	620.31	N.A.	55.60
40-70	393.52	N.A.	35.30
60-80	129.57	N.A.	11.60
70-80	45.79	N.A.	4.10
80-90	12.24	N.A.	1.10
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	1116.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.04
10-20	164.10
20-30	219.21
30-40	220.35
40-50	180.75
50-60	128.99
60-70	83.78
70-80	45.79
80-90	12.24
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

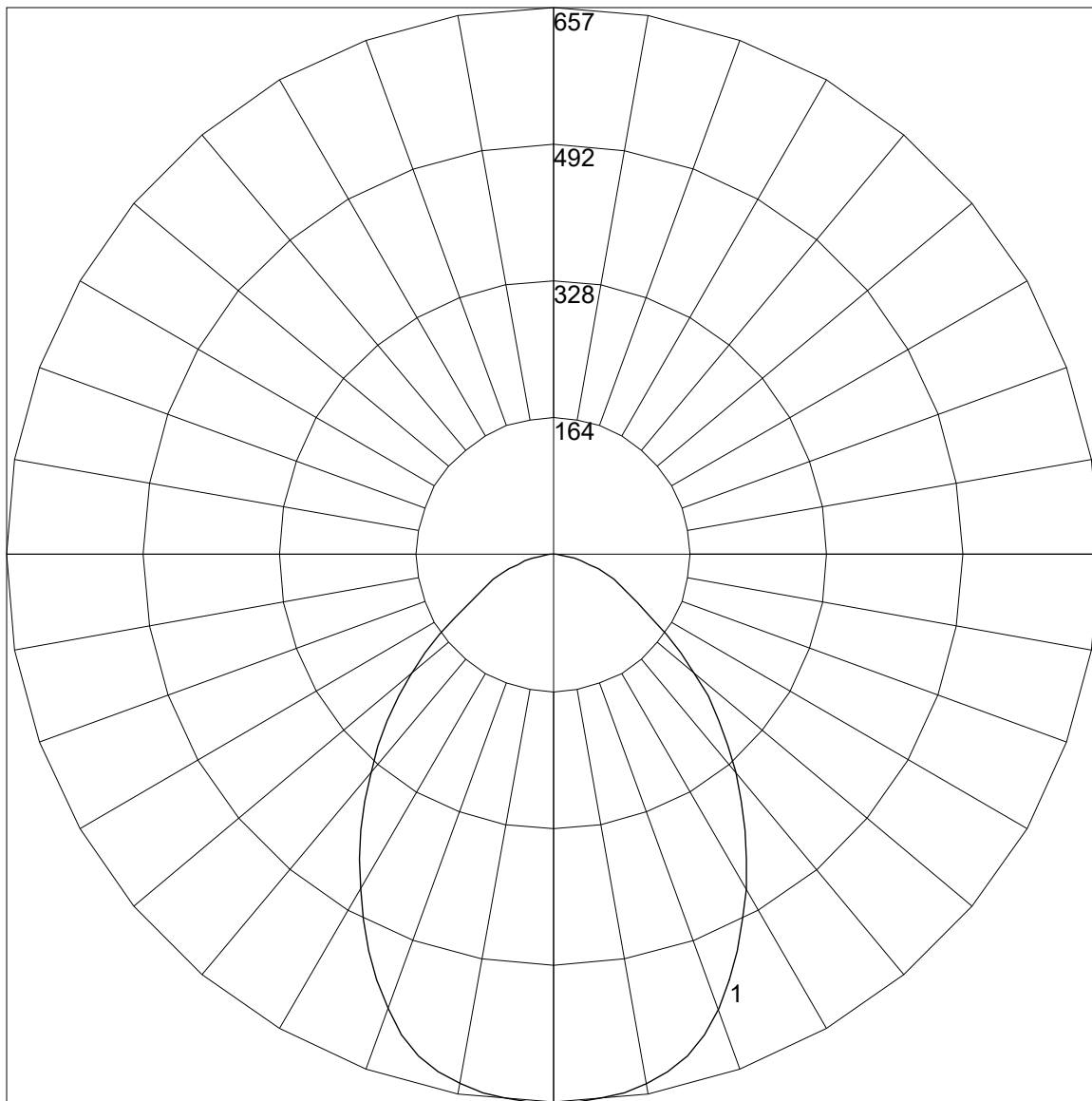
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68	66
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	49	47
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32

POLAR GRAPH



Maximum Candela = 656.531 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)