

# 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-ID-RG-4FT-H-B-835-WSOTG-F-ITL90353 ITL89033.008.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353 ITL89033.008 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]04/03/18

[ISSUEDATE]06/04/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-ID-RG-4ft-H-B-835-WSOTG-F

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 46.3 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 48.3 WATTS

[\_ABSOLUTE]LUMENS]5135

[OTHER]see [www.finelite.com](http://www.finelite.com) for source files ITL90353 and ITL89033. 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	5135
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	46.3
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5295	4837	4485
55	4936	4256	3800
65	4489	3517	2937
75	3914	2422	1844
85	2858	1572	1477

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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	763.530	763.530	763.530	763.530	763.530
2.5	762.010	761.503	762.010	762.010	762.010
5.0	758.463	757.956	757.956	758.463	758.970
7.5	752.890	752.383	752.383	752.383	751.876
10.0	745.797	743.263	744.277	742.757	740.730
12.5	735.664	732.624	732.624	729.584	726.037
15.0	724.010	718.944	718.437	714.384	709.317
17.5	709.824	703.744	701.211	695.638	690.571
20.0	693.105	686.011	681.958	674.358	669.798
22.5	674.865	667.265	660.679	651.559	646.492
25.0	655.105	646.492	637.879	626.733	621.666
27.5	633.826	624.199	613.053	600.893	595.320
30.0	610.520	600.893	587.720	574.040	567.454
32.5	586.200	576.574	560.867	545.668	537.561
35.0	561.881	550.734	533.508	516.788	508.175
37.5	536.548	523.882	504.629	485.882	478.283
40.0	510.202	497.029	475.243	456.497	447.883
42.5	483.856	469.163	446.870	426.097	417.484
45.0	457.003	441.297	417.484	395.191	387.085
47.5	430.150	412.924	388.098	364.792	356.685
50.0	402.284	384.045	357.699	333.886	325.779
52.5	373.912	355.165	327.806	303.993	295.887
55.0	345.539	326.793	297.913	274.101	265.994
57.5	317.673	297.913	268.527	244.714	236.608
60.0	289.300	269.034	239.141	215.328	207.222
62.5	260.928	240.155	209.755	186.449	178.849
65.0	231.542	211.782	181.383	158.583	151.490
67.5	203.675	183.409	153.010	131.730	124.637
70.0	175.809	155.543	126.157	105.384	99.305
72.5	148.450	128.690	100.824	81.572	75.492
75.0	123.624	102.851	76.505	60.799	58.265
77.5	98.291	78.532	54.719	48.639	48.132
80.0	73.972	55.225	39.519	37.999	37.999
82.5	52.692	33.439	28.373	27.359	27.359
85.0	30.399	18.240	16.720	16.213	15.706
87.5	9.627	6.080	5.573	5.573	5.067
90.0	0.000	0.000	0.000	0.000	0.000
92.5	12.444	21.778	23.333	23.333	23.333
95.0	35.000	62.222	63.778	49.778	49.778
97.5	61.444	105.778	163.333	101.889	88.667
100.0	92.556	144.667	259.000	191.333	150.111
102.5	129.889	176.556	382.667	296.333	241.111
105.0	164.111	210.778	477.555	458.111	367.111
107.5	199.111	245.000	521.111	670.444	563.889
110.0	232.556	276.889	542.111	847.000	807.333
112.5	266.778	308.000	567.000	920.111	968.333
115.0	299.445	337.555	609.000	942.667	1029.000
117.5	325.889	364.778	642.444	953.556	1051.555
120.0	350.000	391.222	664.222	996.333	1067.889
122.5	371.000	416.889	678.222	1049.222	1118.445
125.0	391.222	439.445	688.333	1078.000	1177.555
127.5	409.889	459.667	696.111	1078.778	1208.667
130.0	425.445	477.555	702.333	1060.111	1203.222
132.5	441.778	494.667	707.778	1034.445	1174.445

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-B-835-WSOTG-F-ITL90353 ITL89033.008.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	457.333	510.222	711.667	1006.444	1137.111
<b>137.5</b>	472.111	524.222	713.222	976.111	1094.333
<b>140.0</b>	487.667	537.444	714.000	945.778	1049.222
<b>142.5</b>	503.222	549.889	713.222	913.889	1004.111
<b>145.0</b>	519.556	562.333	709.333	884.333	959.778
<b>147.5</b>	532.778	572.444	703.889	854.778	917.000
<b>150.0</b>	546.778	582.556	698.444	826.000	878.111
<b>152.5</b>	560.778	591.111	692.222	798.000	842.333
<b>155.0</b>	573.222	599.667	686.000	771.556	806.556
<b>157.5</b>	584.889	606.667	678.222	747.444	774.667
<b>160.0</b>	595.778	613.667	672.000	725.667	745.889
<b>162.5</b>	605.111	619.111	664.222	705.444	721.000
<b>165.0</b>	614.444	623.778	657.222	687.556	699.222
<b>167.5</b>	621.444	627.667	651.000	672.000	680.556
<b>170.0</b>	626.889	631.556	646.333	659.556	664.222
<b>172.5</b>	630.778	633.889	642.444	649.444	652.556
<b>175.0</b>	634.667	635.444	638.556	641.667	644.000
<b>177.5</b>	636.222	636.222	637.000	637.778	637.778
<b>180.0</b>	637.000	637.000	637.000	637.000	637.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-B-835-WSOTG-F-ITL90353 ITL89033.008.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	273.76	N.A.	5.30
0-30	567.00	N.A.	11.00
0-40	900.65	N.A.	17.50
0-60	1493.09	N.A.	29.10
0-80	1767.25	N.A.	34.40
0-90	1789.16	N.A.	34.80
10-90	1717.25	N.A.	33.40
20-40	626.89	N.A.	12.20
20-50	950.04	N.A.	18.50
40-70	776.61	N.A.	15.10
60-80	274.16	N.A.	5.30
70-80	89.99	N.A.	1.80
80-90	21.92	N.A.	0.40
90-110	452.26	N.A.	8.80
90-120	1077.33	N.A.	21.00
90-130	1740.06	N.A.	33.90
90-150	2779.79	N.A.	54.10
90-180	3346.07	N.A.	65.20
110-180	2893.8	N.A.	56.40
0-180	5135.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	71.92
10-20	201.84
20-30	293.24
30-40	333.65
40-50	323.15
50-60	269.29
60-70	184.17
70-80	89.99
80-90	21.92
90-100	75.36
100-110	376.90
110-120	625.06
120-130	662.73
130-140	584.82
140-150	454.91
150-160	318.49
160-170	186.59
170-180	61.20

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

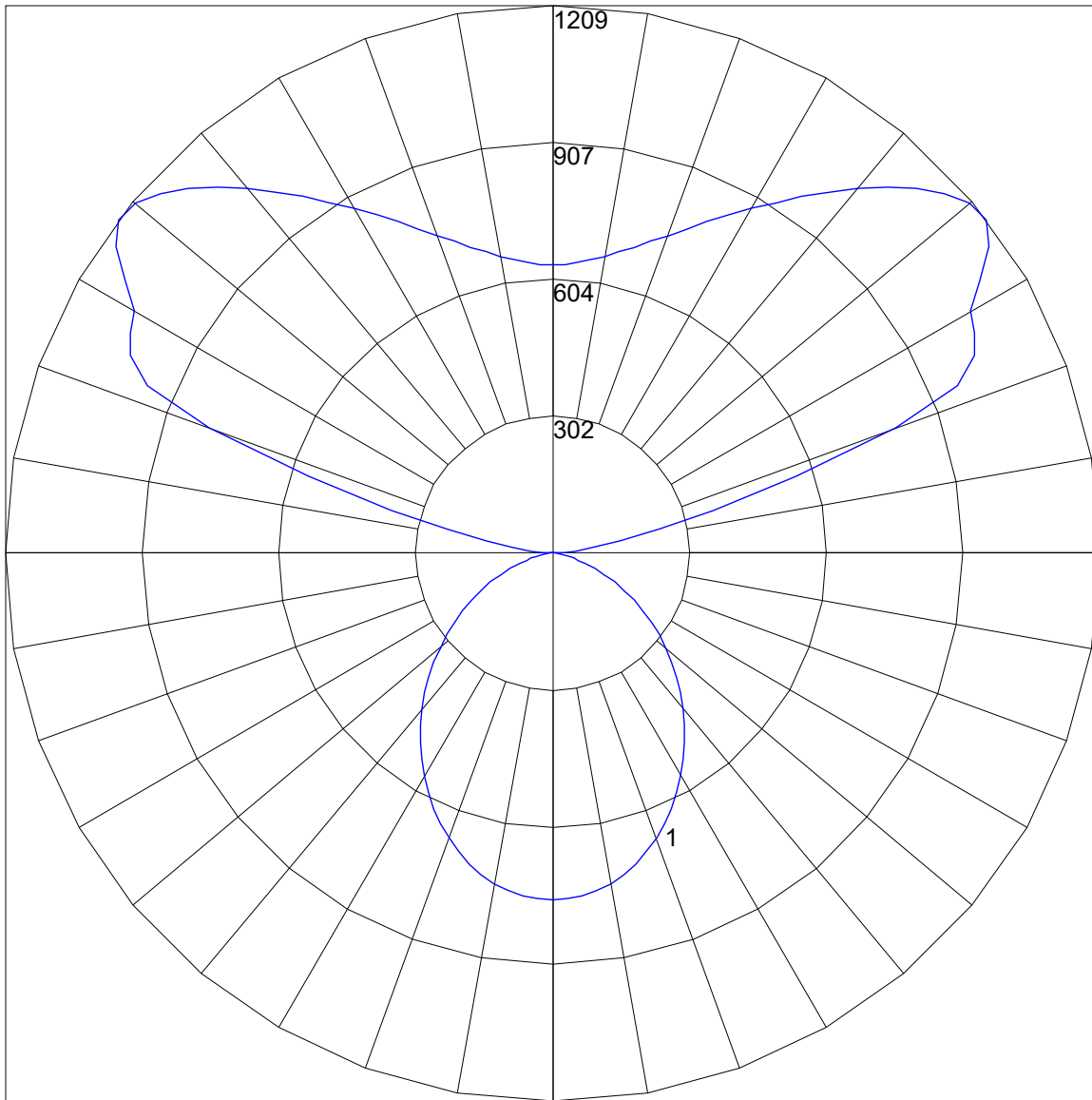
Effective Floor Cavity Reflectance 0.20

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	95	90	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	67	63	58	54	51	45	43	41	33	32	31	25
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	62	54	48	65	56	50	45	46	41	37	36	32	30	27	24	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	36	55	45	38	33	37	32	28	29	25	23	22	19	18	14
7	56	44	37	31	51	41	34	29	33	28	24	26	23	20	20	17	16	13
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	16	14	12
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	14	13	10
10	45	34	27	22	41	31	25	20	25	21	17	20	17	14	16	13	12	9

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## POLAR GRAPH



Maximum Candela = 1208.667 Located At Horizontal Angle = 90, Vertical Angle = 127.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)