

# 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-B-S-835-WSOTG-F-ITL90353 ITL89033.010.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353 ITL89033.010 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-B-S-835-WSOTG-F

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 32.6 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 35.2 WATTS

[\_ABSOLUTE]LUMENS]3637

[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	3637
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	32.6
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	4212	3848	3568
55	3926	3385	3022
65	3571	2797	2336
75	3113	1926	1467
85	2273	1250	1174

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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	607.324	607.324	607.324	607.324	607.324
2.5	606.115	605.712	606.115	606.115	606.115
5.0	603.294	602.891	602.891	603.294	603.697
7.5	598.861	598.458	598.458	598.458	598.055
10.0	593.219	591.204	592.010	590.801	589.189
12.5	585.159	582.741	582.741	580.323	577.502
15.0	575.890	571.860	571.457	568.233	564.203
17.5	564.606	559.770	557.755	553.322	549.292
20.0	551.307	545.665	542.441	536.396	532.769
22.5	536.799	530.754	525.515	518.261	514.231
25.0	521.082	514.231	507.380	498.514	494.483
27.5	504.156	496.498	487.632	477.960	473.527
30.0	485.617	477.960	467.482	456.601	451.362
32.5	466.273	458.616	446.123	434.033	427.585
35.0	446.929	438.063	424.361	411.062	404.211
37.5	426.779	416.704	401.390	386.479	380.434
40.0	405.823	395.345	378.016	363.105	356.254
42.5	384.867	373.180	355.448	338.925	332.074
45.0	363.508	351.015	332.074	314.342	307.894
47.5	342.149	328.447	308.700	290.161	283.713
50.0	319.984	305.476	284.519	265.578	259.130
52.5	297.416	282.504	260.742	241.801	235.353
55.0	274.847	259.936	236.965	218.024	211.576
57.5	252.682	236.965	213.591	194.650	188.202
60.0	230.114	213.994	190.217	171.276	164.828
62.5	207.546	191.023	166.843	148.305	142.260
65.0	184.172	168.455	144.275	126.140	120.498
67.5	162.007	145.887	121.707	104.781	99.138
70.0	139.842	123.722	100.347	83.824	78.988
72.5	118.080	102.362	80.197	64.883	60.047
75.0	98.332	81.809	60.853	48.360	46.345
77.5	78.182	62.465	43.524	38.688	38.285
80.0	58.838	43.927	31.434	30.225	30.225
82.5	41.912	26.598	22.568	21.762	21.762
85.0	24.180	14.508	13.299	12.896	12.493
87.5	7.657	4.836	4.433	4.433	4.030
90.0	0.000	0.000	0.000	0.000	0.000
92.5	8.234	14.410	15.439	15.439	15.439
95.0	23.159	41.172	42.201	32.937	32.937
97.5	40.657	69.992	108.075	67.418	58.669
100.0	61.243	95.724	171.377	126.603	99.326
102.5	85.946	116.824	253.205	196.079	159.540
105.0	108.590	139.469	315.992	303.125	242.912
107.5	131.749	162.113	344.812	443.623	373.117
110.0	153.879	183.213	358.707	560.448	534.201
112.5	176.523	203.799	375.176	608.824	640.732
115.0	198.138	223.356	402.966	623.749	680.875
117.5	215.636	241.368	425.096	630.954	695.799
120.0	231.590	258.866	439.506	659.259	706.607
122.5	245.485	275.849	448.770	694.255	740.059
125.0	258.866	290.774	455.460	713.297	779.172
127.5	271.218	304.155	460.607	713.812	799.757
130.0	281.510	315.992	464.724	701.460	796.155
132.5	292.318	327.314	468.326	684.477	777.113

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-S-835-WSOTG-F-ITL90353 ITL89033.010.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	302.611	337.607	470.900	665.950	752.410
<b>137.5</b>	312.389	346.870	471.929	645.879	724.105
<b>140.0</b>	322.682	355.619	472.443	625.808	694.255
<b>142.5</b>	332.975	363.853	471.929	604.707	664.406
<b>145.0</b>	343.782	372.088	469.356	585.151	635.071
<b>147.5</b>	352.531	378.778	465.753	565.594	606.766
<b>150.0</b>	361.795	385.469	462.151	546.552	581.033
<b>152.5</b>	371.059	391.130	458.034	528.025	557.360
<b>155.0</b>	379.293	396.791	453.916	510.527	533.686
<b>157.5</b>	387.012	401.423	448.770	494.573	512.586
<b>160.0</b>	394.218	406.054	444.653	480.163	493.544
<b>162.5</b>	400.393	409.657	439.506	466.782	477.075
<b>165.0</b>	406.569	412.745	434.875	454.946	462.665
<b>167.5</b>	411.201	415.318	430.757	444.653	450.314
<b>170.0</b>	414.803	417.891	427.670	436.418	439.506
<b>172.5</b>	417.377	419.435	425.096	429.728	431.787
<b>175.0</b>	419.950	420.464	422.523	424.582	426.125
<b>177.5</b>	420.979	420.979	421.494	422.008	422.008
<b>180.0</b>	421.494	421.494	421.494	421.494	421.494

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-S-835-WSOTG-F-ITL90353 ITL89033.010.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	217.75	N.A.	6.00
0-30	451.00	N.A.	12.40
0-40	716.39	N.A.	19.70
0-60	1187.63	N.A.	32.70
0-80	1405.7	N.A.	38.60
0-90	1423.13	N.A.	39.10
10-90	1365.93	N.A.	37.60
20-40	498.64	N.A.	13.70
20-50	755.67	N.A.	20.80
40-70	617.73	N.A.	17.00
60-80	218.07	N.A.	6.00
70-80	71.58	N.A.	2.00
80-90	17.43	N.A.	0.50
90-110	299.26	N.A.	8.20
90-120	712.85	N.A.	19.60
90-130	1151.37	N.A.	31.70
90-150	1839.35	N.A.	50.60
90-180	2214.04	N.A.	60.90
110-180	1914.79	N.A.	52.60
0-180	3637.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	57.21
10-20	160.55
20-30	233.25
30-40	265.39
40-50	257.04
50-60	214.20
60-70	146.49
70-80	71.58
80-90	17.43
90-100	49.87
100-110	249.39
110-120	413.60
120-130	438.52
130-140	386.97
140-150	301.01
150-160	210.74
160-170	123.46
170-180	40.50

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

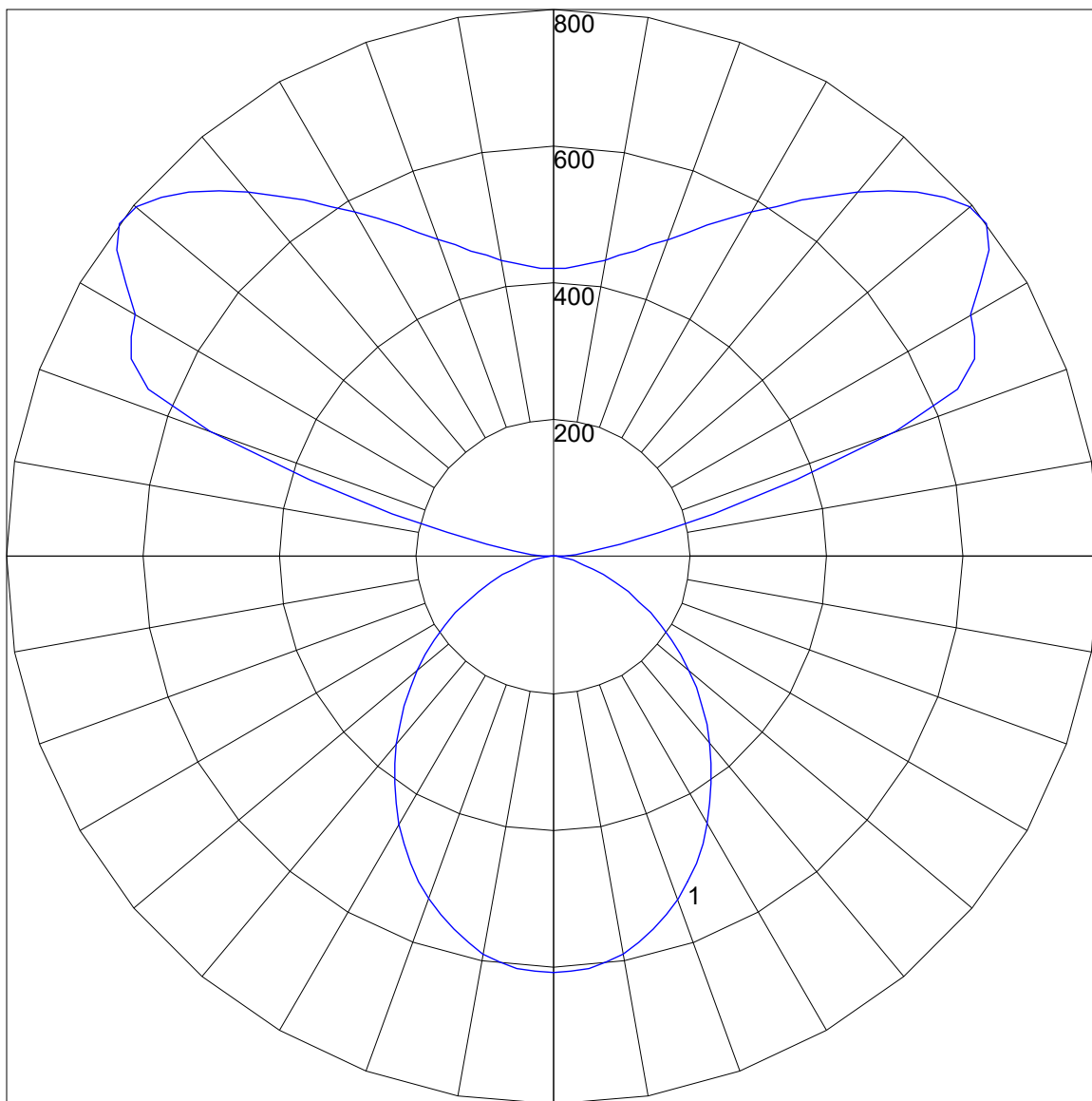
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	34	28
3	80	71	63	58	72	64	58	53	53	49	45	42	39	37	32	30	29	24
4	73	62	55	49	66	57	51	45	47	42	38	38	34	32	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	26	22	18	22	18	15	17	15	13	11

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## POLAR GRAPH



Maximum Candela = 799.757 Located At Horizontal Angle = 90, Vertical Angle = 127.5

# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)