

# 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-V-835-WSOTG-F-ITL90353 ITL89033.009.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353 ITL89033.009 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-V-835-WSOTG-F

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 64.8 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 66.2 WATTS

[\_ABSOLUTE]LUMENS]6823

[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	6823
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	64.8
Ballast Factor	1.00
CIE Type	General Diffuse
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	10292	9402	8717
55	9593	8271	7385
65	8724	6834	5708
75	7606	4707	3585
85	5554	3055	2870

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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	1483.953	1483.953	1483.953	1483.953	1483.953
2.5	1480.999	1480.014	1480.999	1480.999	1480.999
5.0	1474.106	1473.122	1473.122	1474.106	1475.091
7.5	1463.274	1462.290	1462.290	1462.290	1461.305
10.0	1449.488	1444.565	1446.534	1443.580	1439.641
12.5	1429.794	1423.886	1423.886	1417.978	1411.085
15.0	1407.146	1397.299	1396.314	1388.437	1378.590
17.5	1379.574	1367.758	1362.834	1352.003	1342.156
20.0	1347.079	1333.293	1325.416	1310.645	1301.783
22.5	1311.630	1296.859	1284.058	1266.333	1256.486
25.0	1273.226	1256.486	1239.746	1218.082	1208.235
27.5	1231.868	1213.159	1191.495	1167.862	1157.031
30.0	1186.572	1167.862	1142.260	1115.673	1102.872
32.5	1139.306	1120.596	1090.071	1060.529	1044.774
35.0	1092.040	1070.376	1036.896	1004.401	987.661
37.5	1042.805	1018.187	980.768	944.334	929.563
40.0	991.600	965.997	923.655	887.221	870.481
42.5	940.395	911.839	868.511	828.139	811.399
45.0	888.206	857.680	811.399	768.071	752.316
47.5	836.016	802.536	754.285	708.989	693.234
50.0	781.857	746.408	695.203	648.922	633.167
52.5	726.714	690.279	637.105	590.824	575.069
55.0	671.570	635.136	579.008	532.726	516.971
57.5	617.411	579.008	521.895	475.613	459.858
60.0	562.268	522.879	464.782	418.500	402.745
62.5	507.124	466.751	407.669	362.372	347.601
65.0	450.011	411.608	352.525	308.213	294.427
67.5	395.852	356.464	297.382	256.024	242.238
70.0	341.693	302.305	245.192	204.819	193.002
72.5	288.519	250.116	195.957	158.538	146.721
75.0	240.268	199.895	148.691	118.165	113.241
77.5	191.033	152.630	106.348	94.532	93.547
80.0	143.767	107.333	76.807	73.853	73.853
82.5	102.409	64.991	55.144	53.174	53.174
85.0	59.082	35.449	32.495	31.511	30.526
87.5	18.709	11.816	10.832	10.832	9.847
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-V-835-WSOTG-F-ITL90353 ITL89033.009.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-V-835-WSOTG-F-ITL90353 ITL89033.009.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	532.07	N.A.	7.80
0-30	1101.98	N.A.	16.20
0-40	1750.45	N.A.	25.70
0-60	2901.88	N.A.	42.50
0-80	3434.72	N.A.	50.30
0-90	3477.32	N.A.	51.00
10-90	3337.54	N.A.	48.90
20-40	1218.38	N.A.	17.90
20-50	1846.44	N.A.	27.10
40-70	1509.38	N.A.	22.10
60-80	532.84	N.A.	7.80
70-80	174.90	N.A.	2.60
80-90	42.60	N.A.	0.60
90-110	452.26	N.A.	6.60
90-120	1077.33	N.A.	15.80
90-130	1740.06	N.A.	25.50
90-150	2779.79	N.A.	40.70
90-180	3346.07	N.A.	49.00
110-180	2893.8	N.A.	42.40
0-180	6823.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	139.78
10-20	392.29
20-30	569.92
30-40	648.46
40-50	628.06
50-60	523.38
60-70	357.94
70-80	174.90
80-90	42.60
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

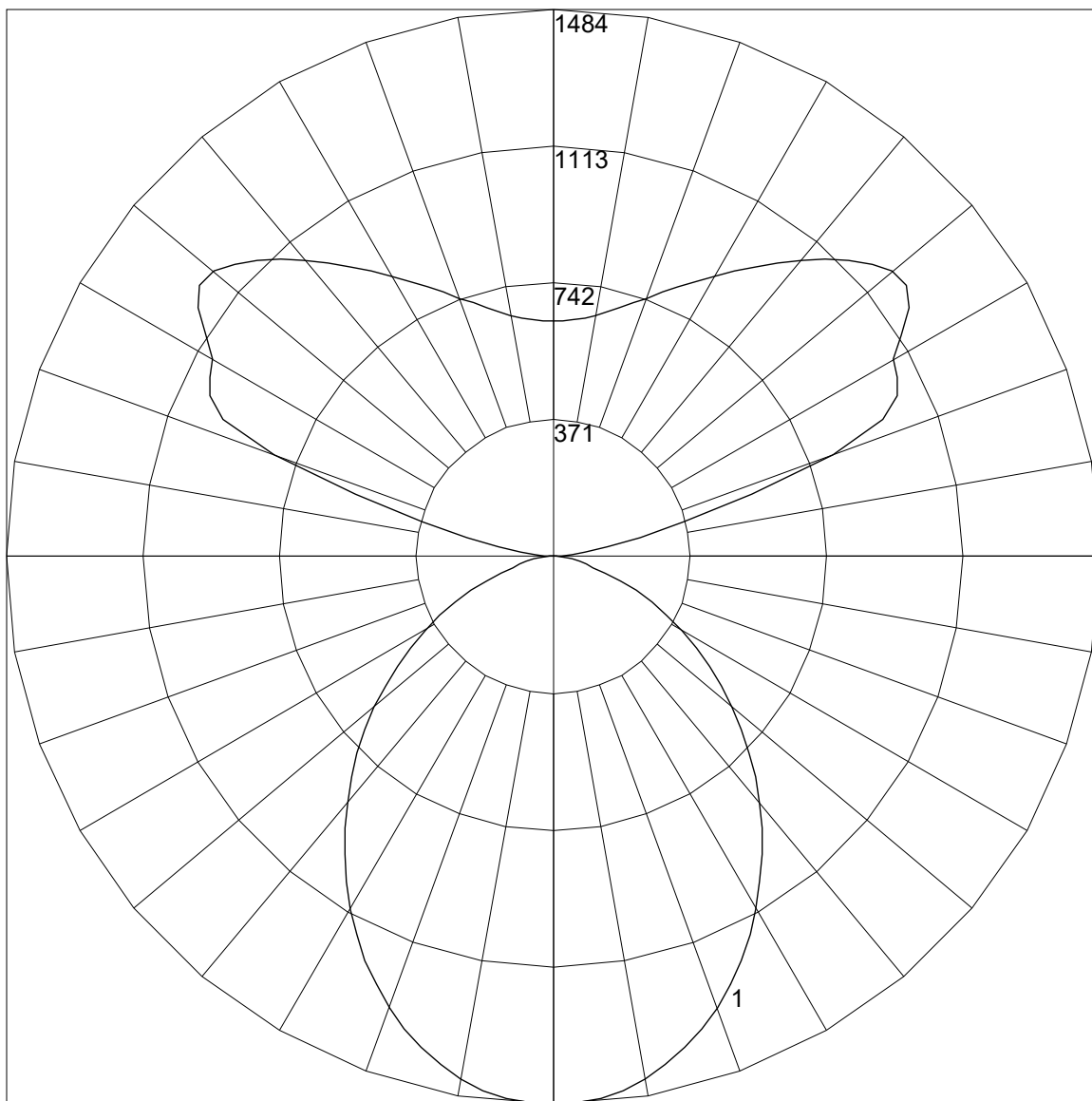
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	91	87	84	81	74	72	70	62	60	59	51	50	49	44
2	90	83	77	72	83	77	71	67	65	61	58	55	52	50	45	43	42	37
3	82	73	66	60	76	68	61	56	58	53	49	49	45	42	40	38	36	32
4	75	65	57	51	69	60	53	48	51	46	42	43	40	36	36	33	31	27
5	69	58	50	44	64	54	47	41	46	41	36	39	35	32	33	30	27	24
6	64	52	44	38	59	48	41	36	42	36	32	35	31	28	30	26	24	21
7	59	47	39	33	54	44	37	32	38	32	28	32	28	25	27	24	21	19
8	55	43	35	30	51	40	33	28	35	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	30	25	32	26	23	27	23	20	23	20	17	15
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	16	14

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## POLAR GRAPH



Maximum Candela = 1483.953 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)