

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-V-B-835-WSOTG-F-ITL90353 ITL89033.005.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353 ITL89033.005 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-V-B-835-WSOTG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 54.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 56.8 WATTS

[_ABSOLUTE]LUMENS]6091

[OTHER]see 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6091
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	54.9
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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	<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	16.000	28.000	30.000	30.000	30.000
95.0	45.000	80.000	82.000	64.000	64.000
97.5	79.000	136.000	210.000	131.000	114.000
100.0	119.000	186.000	333.000	246.000	193.000
102.5	167.000	227.000	492.000	381.000	310.000
105.0	211.000	271.000	614.000	589.000	472.000
107.5	256.000	315.000	670.000	862.000	725.000
110.0	299.000	356.000	697.000	1089.000	1038.000
112.5	343.000	396.000	729.000	1183.000	1245.000
115.0	385.000	434.000	783.000	1212.000	1323.000
117.5	419.000	469.000	826.000	1226.000	1352.000
120.0	450.000	503.000	854.000	1281.000	1373.000
122.5	477.000	536.000	872.000	1349.000	1438.000
125.0	503.000	565.000	885.000	1386.000	1514.000
127.5	527.000	591.000	895.000	1387.000	1554.000
130.0	547.000	614.000	903.000	1363.000	1547.000
132.5	568.000	636.000	910.000	1330.000	1510.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-V-B-835-WSOTG-F-ITL90353 ITL89033.005.IES****CANDELA TABULATION - (Cont.)**

135.0	588.000	656.000	915.000	1294.000	1462.000
137.5	607.000	674.000	917.000	1255.000	1407.000
140.0	627.000	691.000	918.000	1216.000	1349.000
142.5	647.000	707.000	917.000	1175.000	1291.000
145.0	668.000	723.000	912.000	1137.000	1234.000
147.5	685.000	736.000	905.000	1099.000	1179.000
150.0	703.000	749.000	898.000	1062.000	1129.000
152.5	721.000	760.000	890.000	1026.000	1083.000
155.0	737.000	771.000	882.000	992.000	1037.000
157.5	752.000	780.000	872.000	961.000	996.000
160.0	766.000	789.000	864.000	933.000	959.000
162.5	778.000	796.000	854.000	907.000	927.000
165.0	790.000	802.000	845.000	884.000	899.000
167.5	799.000	807.000	837.000	864.000	875.000
170.0	806.000	812.000	831.000	848.000	854.000
172.5	811.000	815.000	826.000	835.000	839.000
175.0	816.000	817.000	821.000	825.000	828.000
177.5	818.000	818.000	819.000	820.000	820.000
180.0	819.000	819.000	819.000	819.000	819.000

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Zone	Lumens	%Lamp	%Fixt
0-20	273.76	N.A.	4.50
0-30	567.00	N.A.	9.30
0-40	900.65	N.A.	14.80
0-60	1493.09	N.A.	24.50
0-80	1767.25	N.A.	29.00
0-90	1789.16	N.A.	29.40
10-90	1717.25	N.A.	28.20
20-40	626.89	N.A.	10.30
20-50	950.04	N.A.	15.60
40-70	776.61	N.A.	12.70
60-80	274.16	N.A.	4.50
70-80	89.99	N.A.	1.50
80-90	21.92	N.A.	0.40
90-110	581.48	N.A.	9.50
90-120	1385.14	N.A.	22.70
90-130	2237.22	N.A.	36.70
90-150	3574.02	N.A.	58.70
90-180	4302.09	N.A.	70.60
110-180	3720.6	N.A.	61.10
0-180	6091.25	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	96.89
100-110	484.59
110-120	803.65
120-130	852.09
130-140	751.91
140-150	584.88
150-160	409.48
160-170	239.90
170-180	78.69

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

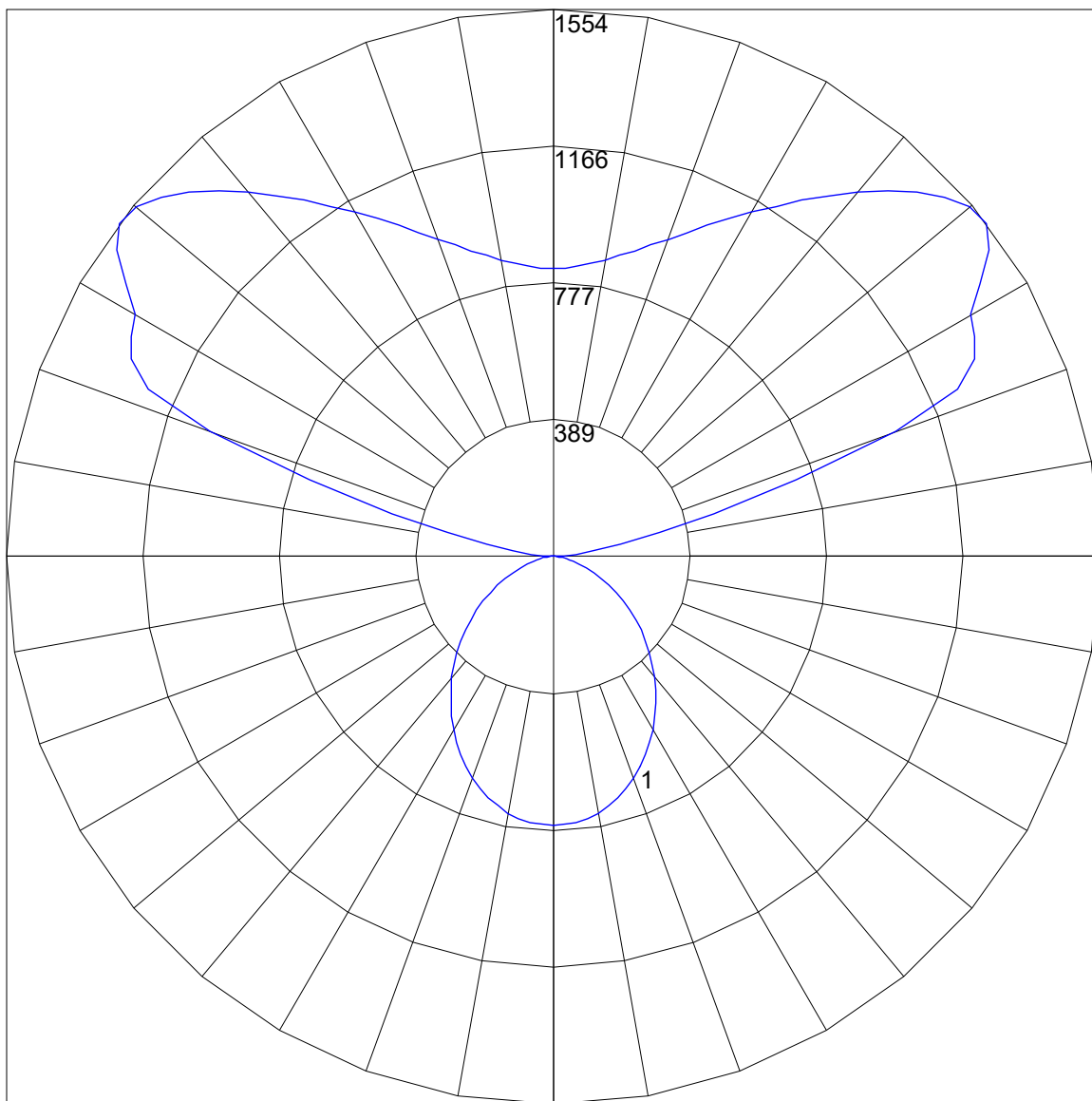
Effective Floor Cavity Reflectance 0.20

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	93	89	86	82	84	80	77	74	63	61	59	48	46	45	33	32	32	25
2	85	78	72	67	76	70	65	61	55	52	49	42	40	38	29	28	27	21
3	78	69	62	56	69	62	56	51	49	45	41	37	34	32	26	24	23	18
4	71	61	53	47	63	55	48	43	44	39	35	33	30	28	23	22	20	16
5	65	54	46	41	58	49	42	37	39	34	30	30	26	24	21	19	17	14
6	60	48	41	35	54	44	37	32	35	30	27	27	23	21	19	17	15	12
7	55	44	36	31	50	39	33	28	32	27	23	24	21	18	17	15	14	11
8	51	39	32	27	46	36	29	25	29	24	21	22	19	16	16	14	12	10
9	48	36	29	24	43	33	26	22	26	22	18	20	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

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POLAR GRAPH



Maximum Candela = 1554 Located At Horizontal Angle = 90, Vertical Angle = 127.5

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