

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-S-835-WSOTG-F-ITL90353 ITL89033.007.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353 ITL89033.007 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-S-835-WSOTG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 42.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 44.6 WATTS

[_ABSOLUTE]LUMENS]4769

[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	4769
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	42.5
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-S-835-WSOTG-F-ITL90353 ITL89033.007.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	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	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-S-835-WSOTG-F-ITL90353 ITL89033.007.IES****CANDELA TABULATION - (Cont.)**

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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-S-835-WSOTG-F-ITL90353 ITL89033.007.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	217.75	N.A.	4.60
0-30	451.00	N.A.	9.50
0-40	716.39	N.A.	15.00
0-60	1187.63	N.A.	24.90
0-80	1405.7	N.A.	29.50
0-90	1423.13	N.A.	29.80
10-90	1365.93	N.A.	28.60
20-40	498.64	N.A.	10.50
20-50	755.67	N.A.	15.80
40-70	617.73	N.A.	13.00
60-80	218.07	N.A.	4.60
70-80	71.58	N.A.	1.50
80-90	17.43	N.A.	0.40
90-110	452.26	N.A.	9.50
90-120	1077.33	N.A.	22.60
90-130	1740.06	N.A.	36.50
90-150	2779.79	N.A.	58.30
90-180	3346.07	N.A.	70.20
110-180	2893.8	N.A.	60.70
0-180	4769.2	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	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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-S-835-WSOTG-F-ITL90353 ITL89033.007.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

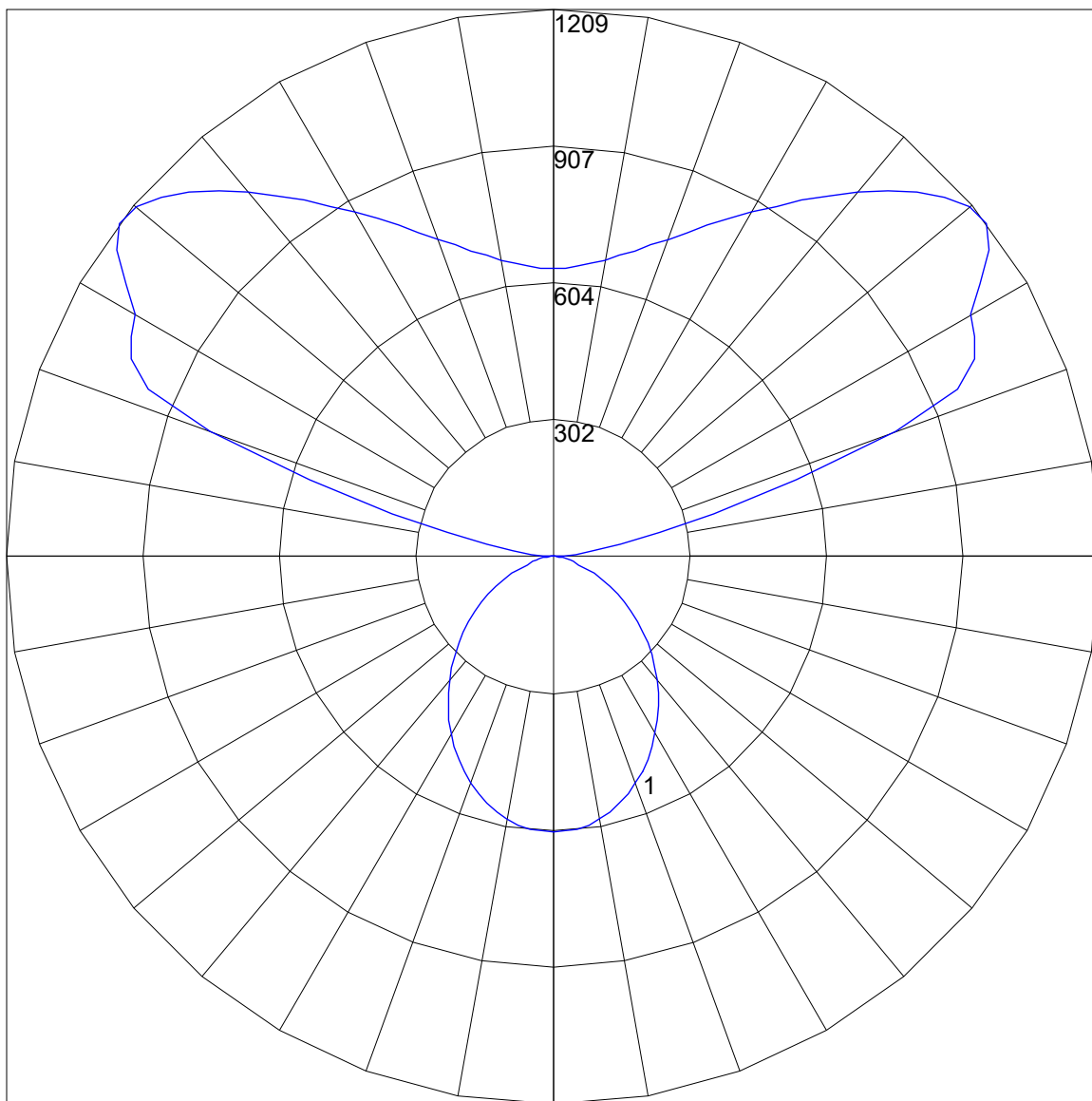
Effective Floor Cavity Reflectance 0.20

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	38	38	38	30
1	93	89	86	82	84	80	77	74	63	61	59	48	47	45	33	33	32	26
2	85	78	72	67	76	70	65	61	56	52	49	42	40	38	30	28	27	22
3	78	69	62	56	70	62	56	51	49	45	42	37	35	32	26	25	23	18
4	71	61	53	48	64	55	48	43	44	39	35	33	30	28	24	22	20	16
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	21	19	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	19	17	16	12
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	40	32	27	46	36	29	25	29	24	21	22	19	17	16	14	12	10
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	8

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-S-835-WSOTG-F-ITL90353 ITL89033.007.IES

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.)