

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-S-S-835-WSOTG-F-ITL90353 ITL89033.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353 ITL89033.001 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-S-S-835-WSOTG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 28.7 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 31.5 WATTS

[_ABSOLUTE]LUMENS]3184

[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	3184
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	37.1
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	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	6.550	11.462	12.280	12.280	12.280
95.0	18.421	32.748	33.566	26.198	26.198
97.5	32.338	55.671	85.962	53.624	46.665
100.0	48.712	76.138	136.312	100.699	79.004
102.5	68.361	92.921	201.398	155.960	126.897
105.0	86.372	110.932	251.338	241.104	193.211
107.5	104.792	128.944	274.261	352.855	296.775
110.0	122.394	145.727	285.313	445.776	424.900
112.5	140.405	162.100	298.412	484.255	509.634
115.0	157.598	177.655	320.517	496.125	541.563
117.5	171.515	191.983	338.119	501.856	553.434
120.0	184.205	205.900	349.580	524.370	562.030
122.5	195.257	219.409	356.948	552.206	588.637
125.0	205.900	231.280	362.270	567.351	619.748
127.5	215.725	241.923	366.363	567.761	636.121
130.0	223.911	251.338	369.638	557.937	633.256
132.5	232.508	260.343	372.503	544.428	618.110

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-S-S-835-WSOTG-F-ITL90353 ITL89033.001.IES****CANDELA TABULATION - (Cont.)**

135.0	240.695	268.530	374.550	529.692	598.462
137.5	248.472	275.898	375.369	513.727	575.948
140.0	256.659	282.857	375.778	497.763	552.206
142.5	264.846	289.407	375.369	480.980	528.464
145.0	273.442	295.956	373.322	465.425	505.131
147.5	280.401	301.278	370.457	449.870	482.617
150.0	287.769	306.599	367.591	434.724	462.150
152.5	295.137	311.102	364.317	419.988	443.320
155.0	301.687	315.605	361.042	406.070	424.490
157.5	307.827	319.289	356.948	393.380	407.707
160.0	313.558	322.973	353.674	381.918	392.561
162.5	318.470	325.838	349.580	371.276	379.462
165.0	323.382	328.294	345.896	361.861	368.001
167.5	327.066	330.341	342.621	353.674	358.176
170.0	329.932	332.388	340.165	347.124	349.580
172.5	331.978	333.616	338.119	341.803	343.440
175.0	334.025	334.434	336.072	337.709	338.937
177.5	334.844	334.844	335.253	335.663	335.663
180.0	335.253	335.253	335.253	335.253	335.253

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Zone	Lumens	%Lamp	%Fixt
0-20	217.75	N.A.	6.80
0-30	451.00	N.A.	14.20
0-40	716.39	N.A.	22.50
0-60	1187.63	N.A.	37.30
0-80	1405.7	N.A.	44.10
0-90	1423.13	N.A.	44.70
10-90	1365.93	N.A.	42.90
20-40	498.64	N.A.	15.70
20-50	755.67	N.A.	23.70
40-70	617.73	N.A.	19.40
60-80	218.07	N.A.	6.80
70-80	71.58	N.A.	2.20
80-90	17.43	N.A.	0.50
90-110	238.03	N.A.	7.50
90-120	567.00	N.A.	17.80
90-130	915.79	N.A.	28.80
90-150	1463.00	N.A.	45.90
90-180	1761.04	N.A.	55.30
110-180	1523.01	N.A.	47.80
0-180	3184.17	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	39.66
100-110	198.36
110-120	328.97
120-130	348.80
130-140	307.79
140-150	239.42
150-160	167.62
160-170	98.20
170-180	32.21

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

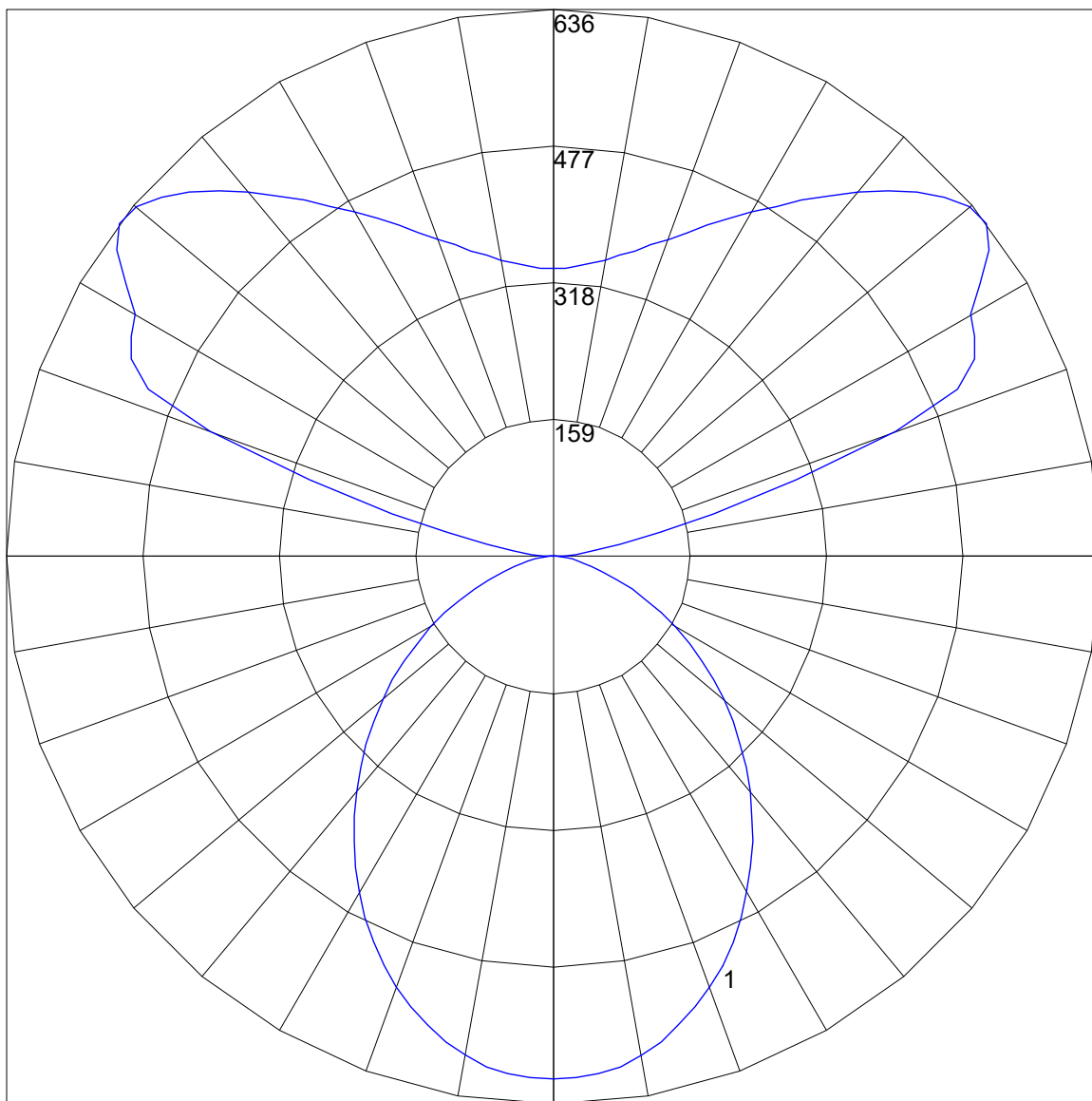
Effective Floor Cavity Reflectance 0.20

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38
2	88	81	75	70	81	75	70	65	62	59	55	51	48	46	41	39	37	32
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28	24
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18
7	58	46	38	33	53	42	36	31	36	31	27	30	26	23	24	21	19	16
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17	15
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	16	13
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12

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POLAR GRAPH



Maximum Candela = 636.121 Located At Horizontal Angle = 90, Vertical Angle = 127.5

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