

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-V-835-WSOTG-F-ITL90353 ITL89033.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353 ITL89033.015 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-V-835-WSOTG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 51.0 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 53.1 WATTS

[_ABSOLUTE]LUMENS]5238

[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	5238
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	51
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.26
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	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-V-835-WSOTG-F-ITL90353 ITL89033.015.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	532.07	N.A.	10.20
0-30	1101.98	N.A.	21.00
0-40	1750.45	N.A.	33.40
0-60	2901.88	N.A.	55.40
0-80	3434.72	N.A.	65.60
0-90	3477.32	N.A.	66.40
10-90	3337.54	N.A.	63.70
20-40	1218.38	N.A.	23.30
20-50	1846.44	N.A.	35.20
40-70	1509.38	N.A.	28.80
60-80	532.84	N.A.	10.20
70-80	174.90	N.A.	3.30
80-90	42.60	N.A.	0.80
90-110	238.03	N.A.	4.50
90-120	567.00	N.A.	10.80
90-130	915.79	N.A.	17.50
90-150	1463.00	N.A.	27.90
90-180	1761.04	N.A.	33.60
110-180	1523.01	N.A.	29.10
0-180	5238.36	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	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

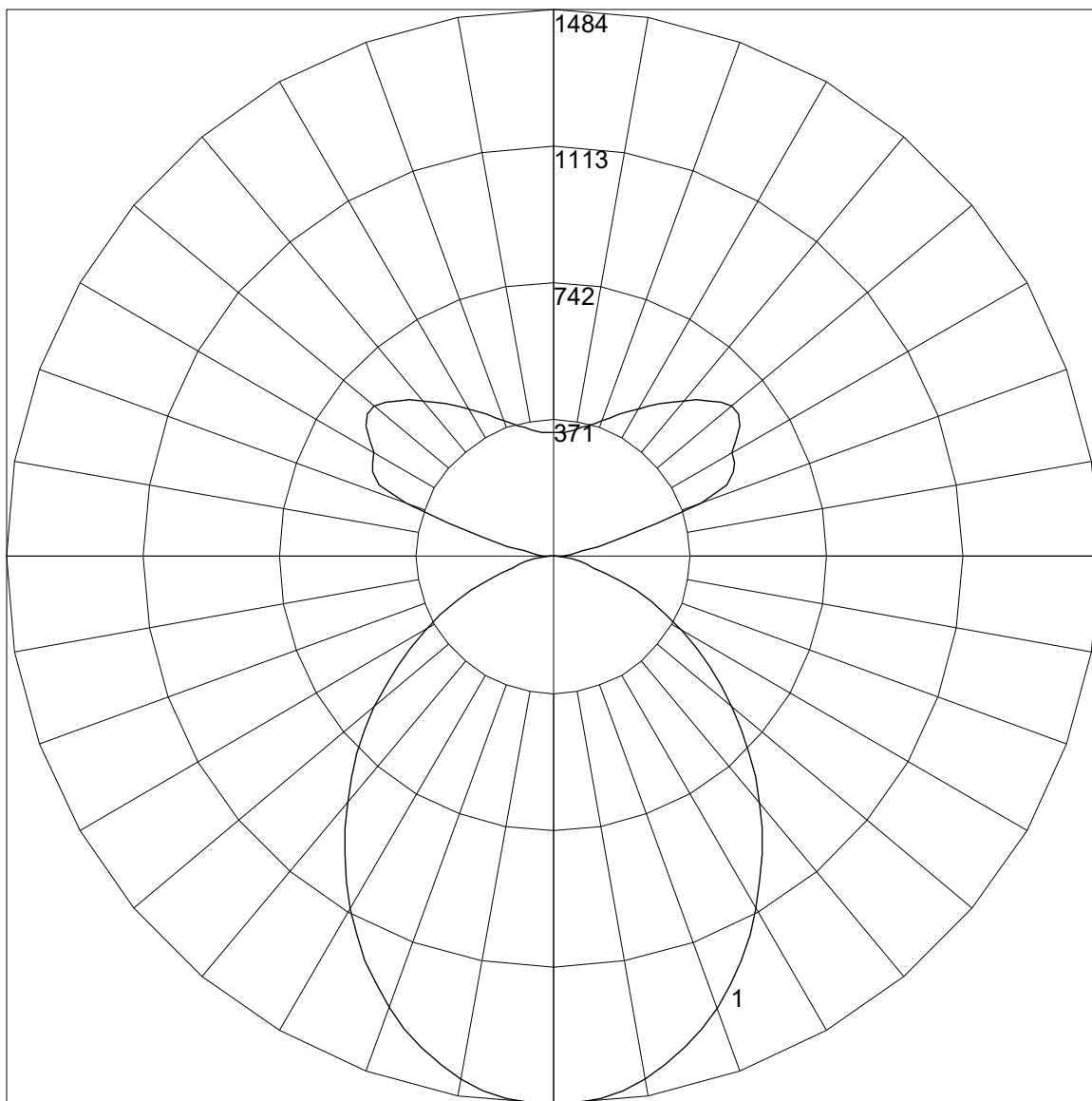
Effective Floor Cavity Reflectance 0.20

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	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71	66
1	102	98	94	90	96	92	89	86	82	79	77	72	70	69	64	62	61	57
2	93	86	80	74	87	81	76	71	72	68	64	64	61	58	56	54	52	48
3	85	76	68	62	80	72	65	60	64	59	54	57	53	49	50	47	45	41
4	78	67	59	53	73	64	57	51	57	51	47	51	46	43	45	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	51	44	39	46	40	36	42	37	33	37	33	30	27
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	24
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22	20
10	50	38	30	26	47	36	29	25	33	27	23	30	25	22	27	23	20	18

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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)