

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-B-V-835-WSOTG-F-ITL90353 ITL89033.012.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353 ITL89033.012 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-B-V-835-WSOTG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 54.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 56.8 WATTS

[_ABSOLUTE]LUMENS]5691

[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	5691
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	54.9
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	8.234	14.410	15.439	15.439	15.439
95.0	23.159	41.172	42.201	32.937	32.937
97.5	40.657	69.992	108.075	67.418	58.669
100.0	61.243	95.724	171.377	126.603	99.326
102.5	85.946	116.824	253.205	196.079	159.540
105.0	108.590	139.469	315.992	303.125	242.912
107.5	131.749	162.113	344.812	443.623	373.117
110.0	153.879	183.213	358.707	560.448	534.201
112.5	176.523	203.799	375.176	608.824	640.732
115.0	198.138	223.356	402.966	623.749	680.875
117.5	215.636	241.368	425.096	630.954	695.799
120.0	231.590	258.866	439.506	659.259	706.607
122.5	245.485	275.849	448.770	694.255	740.059
125.0	258.866	290.774	455.460	713.297	779.172
127.5	271.218	304.155	460.607	713.812	799.757
130.0	281.510	315.992	464.724	701.460	796.155
132.5	292.318	327.314	468.326	684.477	777.113

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-V-835-WSOTG-F-ITL90353 ITL89033.012.IES****CANDELA TABULATION - (Cont.)**

135.0	302.611	337.607	470.900	665.950	752.410
137.5	312.389	346.870	471.929	645.879	724.105
140.0	322.682	355.619	472.443	625.808	694.255
142.5	332.975	363.853	471.929	604.707	664.406
145.0	343.782	372.088	469.356	585.151	635.071
147.5	352.531	378.778	465.753	565.594	606.766
150.0	361.795	385.469	462.151	546.552	581.033
152.5	371.059	391.130	458.034	528.025	557.360
155.0	379.293	396.791	453.916	510.527	533.686
157.5	387.012	401.423	448.770	494.573	512.586
160.0	394.218	406.054	444.653	480.163	493.544
162.5	400.393	409.657	439.506	466.782	477.075
165.0	406.569	412.745	434.875	454.946	462.665
167.5	411.201	415.318	430.757	444.653	450.314
170.0	414.803	417.891	427.670	436.418	439.506
172.5	417.377	419.435	425.096	429.728	431.787
175.0	419.950	420.464	422.523	424.582	426.125
177.5	420.979	420.979	421.494	422.008	422.008
180.0	421.494	421.494	421.494	421.494	421.494

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-V-835-WSOTG-F-ITL90353 ITL89033.012.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	532.07	N.A.	9.30
0-30	1101.98	N.A.	19.40
0-40	1750.45	N.A.	30.80
0-60	2901.88	N.A.	51.00
0-80	3434.72	N.A.	60.30
0-90	3477.32	N.A.	61.10
10-90	3337.54	N.A.	58.60
20-40	1218.38	N.A.	21.40
20-50	1846.44	N.A.	32.40
40-70	1509.38	N.A.	26.50
60-80	532.84	N.A.	9.40
70-80	174.90	N.A.	3.10
80-90	42.60	N.A.	0.70
90-110	299.26	N.A.	5.30
90-120	712.85	N.A.	12.50
90-130	1151.37	N.A.	20.20
90-150	1839.35	N.A.	32.30
90-180	2214.04	N.A.	38.90
110-180	1914.79	N.A.	33.60
0-180	5691.36	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	49.87
100-110	249.39
110-120	413.60
120-130	438.52
130-140	386.97
140-150	301.01
150-160	210.74
160-170	123.46
170-180	40.50

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

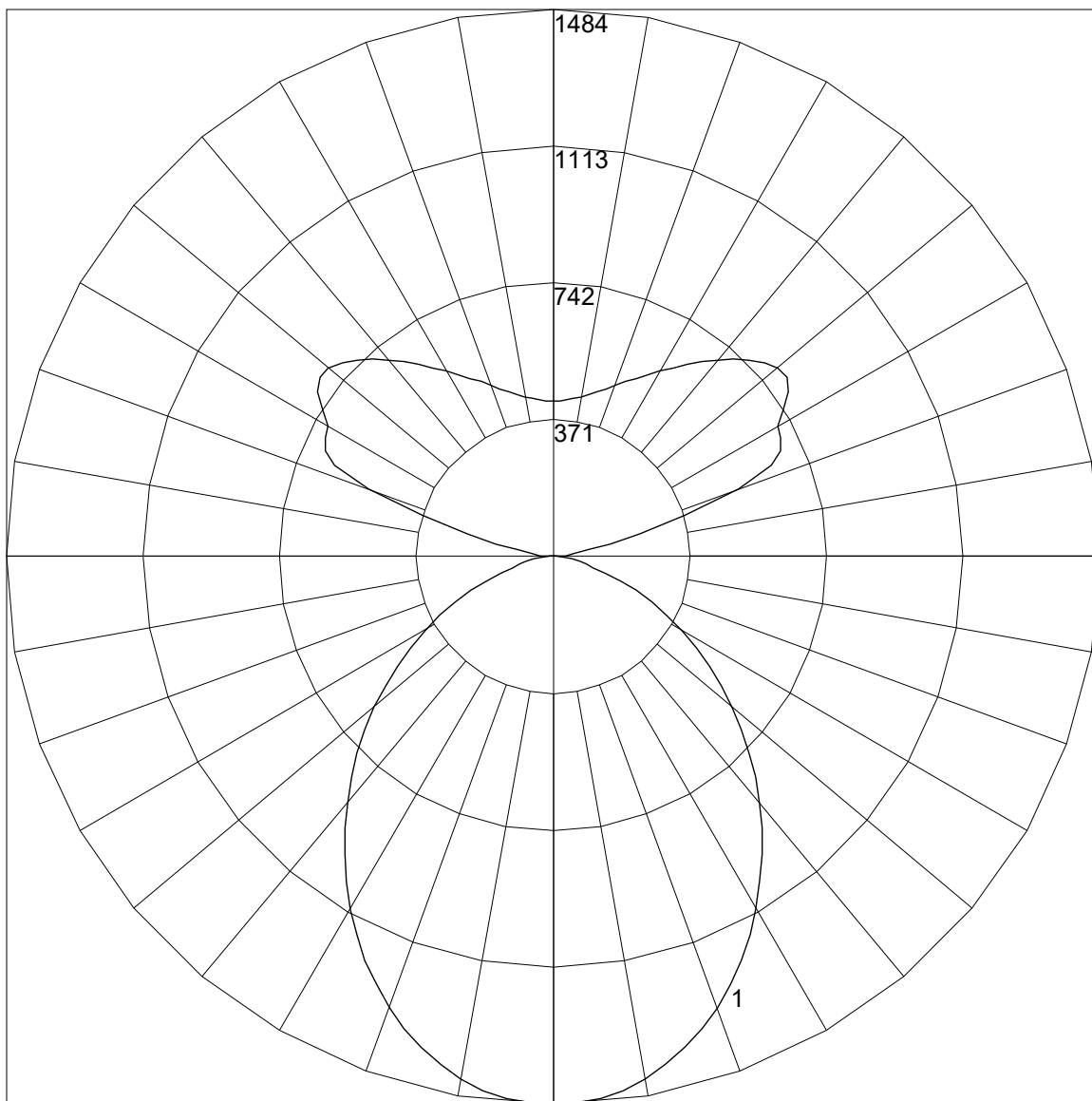
Effective Floor Cavity Reflectance 0.20

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	110	110	110	110	103	103	103	103	90	90	90	77	77	77	66	66	66	61
1	101	96	93	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	85	79	73	86	79	74	70	70	66	62	61	58	55	53	50	48	44
3	84	75	67	62	78	70	64	59	62	57	53	54	50	47	47	44	41	38
4	77	66	58	52	72	62	55	50	55	50	45	48	44	41	42	39	36	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	35	38	34	32	29
6	65	53	45	39	61	50	43	38	45	39	34	39	35	31	35	31	28	25
7	61	48	40	35	57	46	38	33	41	35	30	36	31	28	32	28	25	22
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	22	20
9	53	40	33	28	49	38	31	27	34	28	24	30	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17

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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)