

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-RG-4FT-V-8TW-ITL85129.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85129.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE] 08/10/15
[ISSUEDATE]02/10/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-RG-4ft-V-8TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.8 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.8 WATTS
[OTHER]see www.finelite.com for source file ITL85129. 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
[_ABSOLUTELUMENS]3477

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3477
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	40.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10656	9384	8607
55	9885	8274	7359
65	9023	6934	5851
75	7913	5115	3892
85	6400	3630	3534

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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	1512	1512	1512	1512	1512
2.5	1510	1510	1510	1509	1509
5.0	1504	1502	1500	1497	1497
7.5	1493	1489	1484	1478	1475
10.0	1478	1469	1460	1452	1445
12.5	1458	1445	1432	1422	1412
15.0	1435	1415	1401	1387	1375
17.5	1407	1381	1364	1346	1333
20.0	1374	1342	1324	1302	1288
22.5	1339	1302	1279	1254	1239
25.0	1298	1260	1232	1202	1186
27.5	1256	1216	1183	1149	1135
30.0	1213	1169	1133	1095	1080
32.5	1165	1119	1079	1038	1023
35.0	1116	1068	1024	981	964
37.5	1065	1016	968	924	906
40.0	1011	962	912	866	848
42.5	960	908	855	809	790
45.0	905	852	797	749	731
47.5	848	797	740	691	673
50.0	793	741	683	634	617
52.5	737	685	626	579	562
55.0	681	630	570	523	507
57.5	627	574	515	470	453
60.0	570	518	459	415	398
62.5	514	463	405	363	347
65.0	458	410	352	312	297
67.5	404	357	301	264	249
70.0	350	305	252	216	203
72.5	297	254	205	171	160
75.0	246	205	159	130	121
77.5	197	160	117	100	98
80.0	151	116	82	78	77
82.5	108	75	59	57	57
85.0	67	41	38	36	37
87.5	28	19	17	16	17
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	536.35	N.A.	15.40
0-30	1104.41	N.A.	31.80
0-40	1747.33	N.A.	50.20
0-60	2885.93	N.A.	83.00
0-80	3429.14	N.A.	98.60
0-90	3477.43	N.A.	100.00
10-90	3335.5	N.A.	95.90
20-40	1210.97	N.A.	34.80
20-50	1831.4	N.A.	52.70
40-70	1498.63	N.A.	43.10
60-80	543.21	N.A.	15.60
70-80	183.19	N.A.	5.30
80-90	48.29	N.A.	1.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3477.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	141.93
10-20	394.42
20-30	568.05
30-40	642.92
40-50	620.43
50-60	518.18
60-70	360.02
70-80	183.19
80-90	48.29
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

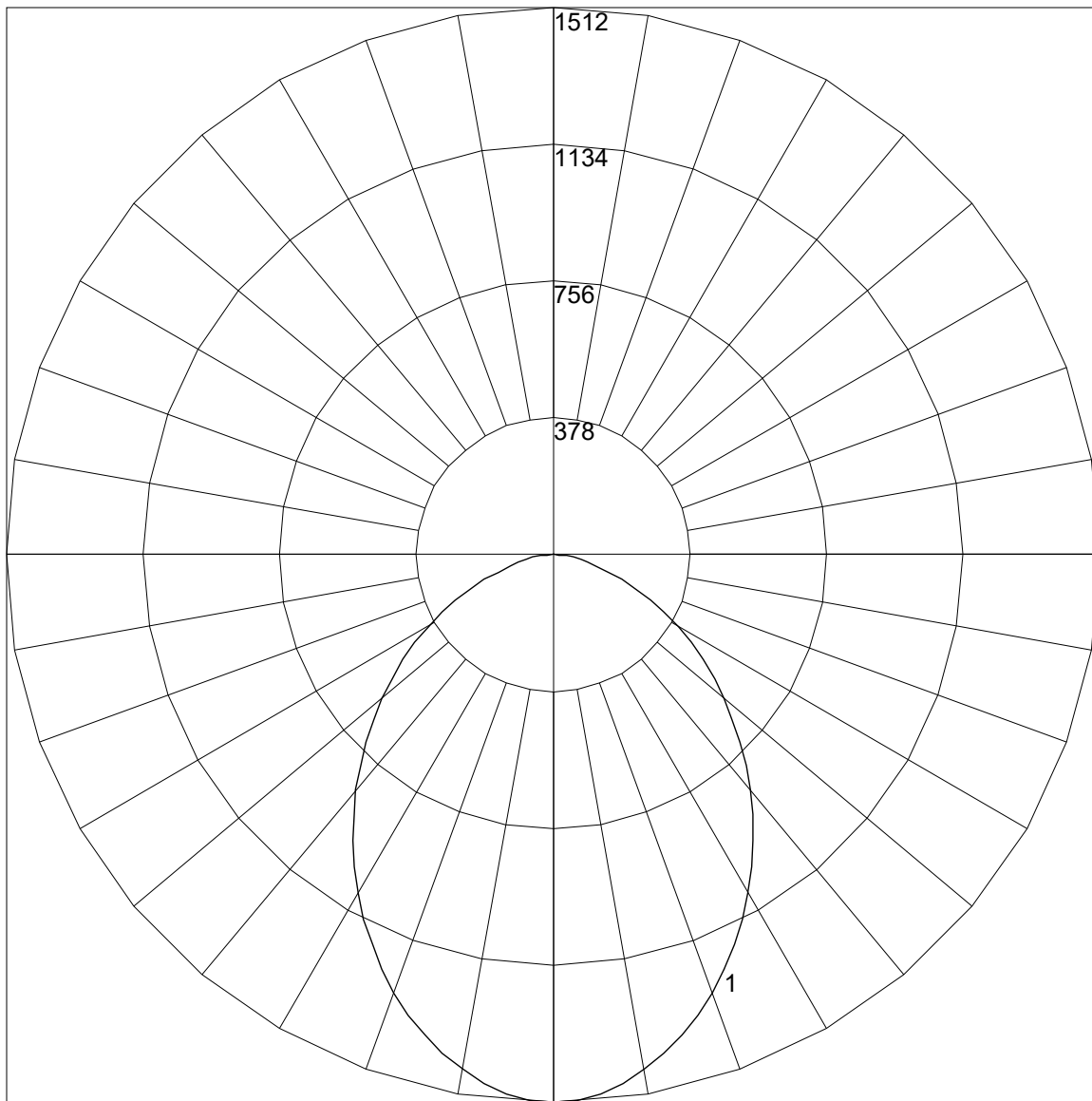
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 1512 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)