

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-2-D-RG-4FT-V-8TW-F-ITL90350.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90350.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]04/03/18
[ISSUEDATE]05/29/18
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-2-D-RG-4ft-V-8TW-F
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & C
[_INPUT_ELECTRICAL]120.0 VOLTS, 40.4 WATTS
[_INPUT_ELECTRICAL]277.0 VOLTS, 41.4 WATTS
[_ABSOLUTE]LUMENS]2887
[OTHER]see www.finelite.com for source file ITL85125. 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	2887
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	40.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	1.12
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18357	13054	10349
55	16517	10376	8073
65	14621	7867	6143
75	12436	6042	5514
85	9929	4877	4529

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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	1529	1529	1529	1529	1529
2.5	1527	1526	1525	1524	1523
5.0	1520	1518	1513	1507	1504
7.5	1508	1503	1489	1477	1471
10.0	1491	1479	1458	1436	1427
12.5	1470	1448	1417	1385	1372
15.0	1443	1412	1370	1327	1309
17.5	1413	1372	1316	1263	1240
20.0	1378	1327	1258	1195	1168
22.5	1336	1277	1196	1122	1092
25.0	1293	1224	1131	1049	1017
27.5	1246	1168	1064	975	941
30.0	1196	1111	997	900	867
32.5	1141	1053	929	826	795
35.0	1086	993	862	757	722
37.5	1030	932	796	690	656
40.0	972	870	731	627	594
42.5	914	810	668	567	536
45.0	855	749	608	511	482
47.5	795	691	550	458	433
50.0	736	632	494	408	386
52.5	681	574	442	364	344
55.0	624	516	392	322	305
57.5	568	462	344	283	268
60.0	513	410	299	246	233
62.5	459	359	258	212	200
65.0	407	311	219	178	171
67.5	354	265	183	154	152
70.0	305	221	150	134	132
72.5	258	180	124	115	112
75.0	212	141	103	95	94
77.5	171	105	82	77	76
80.0	131	74	63	59	59
82.5	92	52	45	42	42
85.0	57	32	28	26	26
87.5	24	14	12	11	11
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	527.37	N.A.	18.30
0-30	1050.87	N.A.	36.40
0-40	1600.47	N.A.	55.40
0-60	2470.38	N.A.	85.60
0-80	2851.03	N.A.	98.70
0-90	2887.32	N.A.	100.00
10-90	2744.7	N.A.	95.10
20-40	1073.1	N.A.	37.20
20-50	1563.06	N.A.	54.10
40-70	1119.36	N.A.	38.80
60-80	380.65	N.A.	13.20
70-80	131.21	N.A.	4.50
80-90	36.28	N.A.	1.30
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	2887.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.62
10-20	384.75
20-30	523.50
30-40	549.60
40-50	489.96
50-60	379.95
60-70	249.45
70-80	131.21
80-90	36.28
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

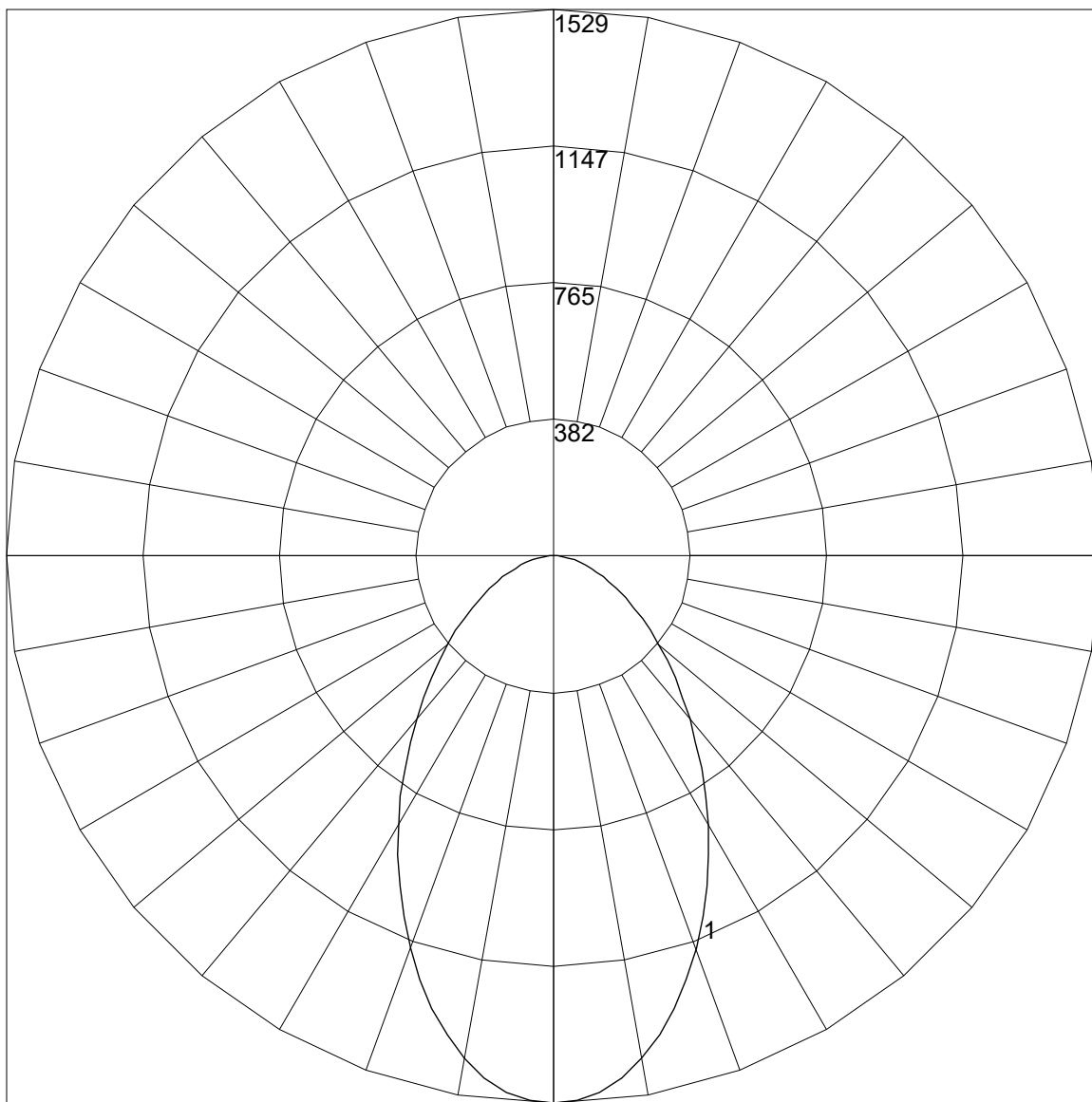
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

POLAR GRAPH



Maximum Candela = 1529 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)