

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-V-V-8TW-TG-F-ITL90353.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]04/03/18

[ISSUEDATE]05/18/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-ID-RG-4ft-V-V-8TW-TG-F

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI's

[_INPUT_ELECTRICAL]120.0 VOLTS, 80.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 82.1 WATTS

[_ABSOLUTE]LUMENS]7937

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7937
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	80.5
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	10452	9548	8853
55	9742	8399	7499
65	8860	6941	5797
75	7724	4780	3641
85	5641	3102	2914

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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	1507	1507	1507	1507	1507
2.5	1504	1503	1504	1504	1504
5.0	1497	1496	1496	1497	1498
7.5	1486	1485	1485	1485	1484
10.0	1472	1467	1469	1466	1462
12.5	1452	1446	1446	1440	1433
15.0	1429	1419	1418	1410	1400
17.5	1401	1389	1384	1373	1363
20.0	1368	1354	1346	1331	1322
22.5	1332	1317	1304	1286	1276
25.0	1293	1276	1259	1237	1227
27.5	1251	1232	1210	1186	1175
30.0	1205	1186	1160	1133	1120
32.5	1157	1138	1107	1077	1061
35.0	1109	1087	1053	1020	1003
37.5	1059	1034	996	959	944
40.0	1007	981	938	901	884
42.5	955	926	882	841	824
45.0	902	871	824	780	764
47.5	849	815	766	720	704
50.0	794	758	706	659	643
52.5	738	701	647	600	584
55.0	682	645	588	541	525
57.5	627	588	530	483	467
60.0	571	531	472	425	409
62.5	515	474	414	368	353
65.0	457	418	358	313	299
67.5	402	362	302	260	246
70.0	347	307	249	208	196
72.5	293	254	199	161	149
75.0	244	203	151	120	115
77.5	194	155	108	96	95
80.0	146	109	78	75	75
82.5	104	66	56	54	54
85.0	60	36	33	32	31
87.5	19	12	11	11	10
90.0	0	0	0	0	0
92.5	30	33	36	37	37
95.0	75	78	81	84	85
97.5	121	125	130	134	135
100.0	170	174	180	185	185
102.5	221	225	232	238	238
105.0	276	281	287	293	293
107.5	333	337	343	350	349
110.0	392	395	401	407	407
112.5	452	455	461	467	466
115.0	514	516	523	528	526
117.5	576	576	584	586	587
120.0	639	639	645	648	649
122.5	703	703	707	710	713
125.0	765	764	768	772	774
127.5	827	825	830	833	837
130.0	889	886	891	895	897
132.5	948	944	950	955	956

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-V-V-8TW-TG-F-ITL90353.900.IES****CANDELA TABULATION - (Cont.)**

135.0	1010	1003	1011	1016	1016
137.5	1070	1061	1070	1073	1074
140.0	1126	1117	1129	1129	1131
142.5	1184	1173	1185	1185	1183
145.0	1241	1227	1240	1239	1237
147.5	1294	1279	1292	1291	1287
150.0	1343	1328	1341	1339	1337
152.5	1390	1376	1389	1386	1383
155.0	1434	1421	1433	1431	1426
157.5	1474	1461	1473	1468	1465
160.0	1512	1501	1511	1506	1501
162.5	1545	1535	1543	1538	1535
165.0	1574	1566	1571	1568	1565
167.5	1599	1593	1596	1594	1592
170.0	1619	1616	1617	1616	1614
172.5	1634	1634	1634	1632	1632
175.0	1646	1646	1646	1645	1645
177.5	1654	1654	1654	1654	1654
180.0	1656	1656	1656	1656	1656

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	540.33	N.A.	6.80
0-30	1119.1	N.A.	14.10
0-40	1777.63	N.A.	22.40
0-60	2946.95	N.A.	37.10
0-80	3488.07	N.A.	43.90
0-90	3531.33	N.A.	44.50
10-90	3389.38	N.A.	42.70
20-40	1237.3	N.A.	15.60
20-50	1875.11	N.A.	23.60
40-70	1532.82	N.A.	19.30
60-80	541.11	N.A.	6.80
70-80	177.61	N.A.	2.20
80-90	43.26	N.A.	0.50
90-110	394.31	N.A.	5.00
90-120	910.53	N.A.	11.50
90-130	1597.66	N.A.	20.10
90-150	3149.91	N.A.	39.70
90-180	4405.95	N.A.	55.50
110-180	4011.64	N.A.	50.50
0-180	7937.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	141.95
10-20	398.38
20-30	578.77
30-40	658.53
40-50	637.81
50-60	531.51
60-70	363.50
70-80	177.61
80-90	43.26
90-100	90.98
100-110	303.32
110-120	516.22
120-130	687.13
130-140	779.42
140-150	772.83
150-160	657.60
160-170	442.28
170-180	156.16

IES INDOOR REPORT

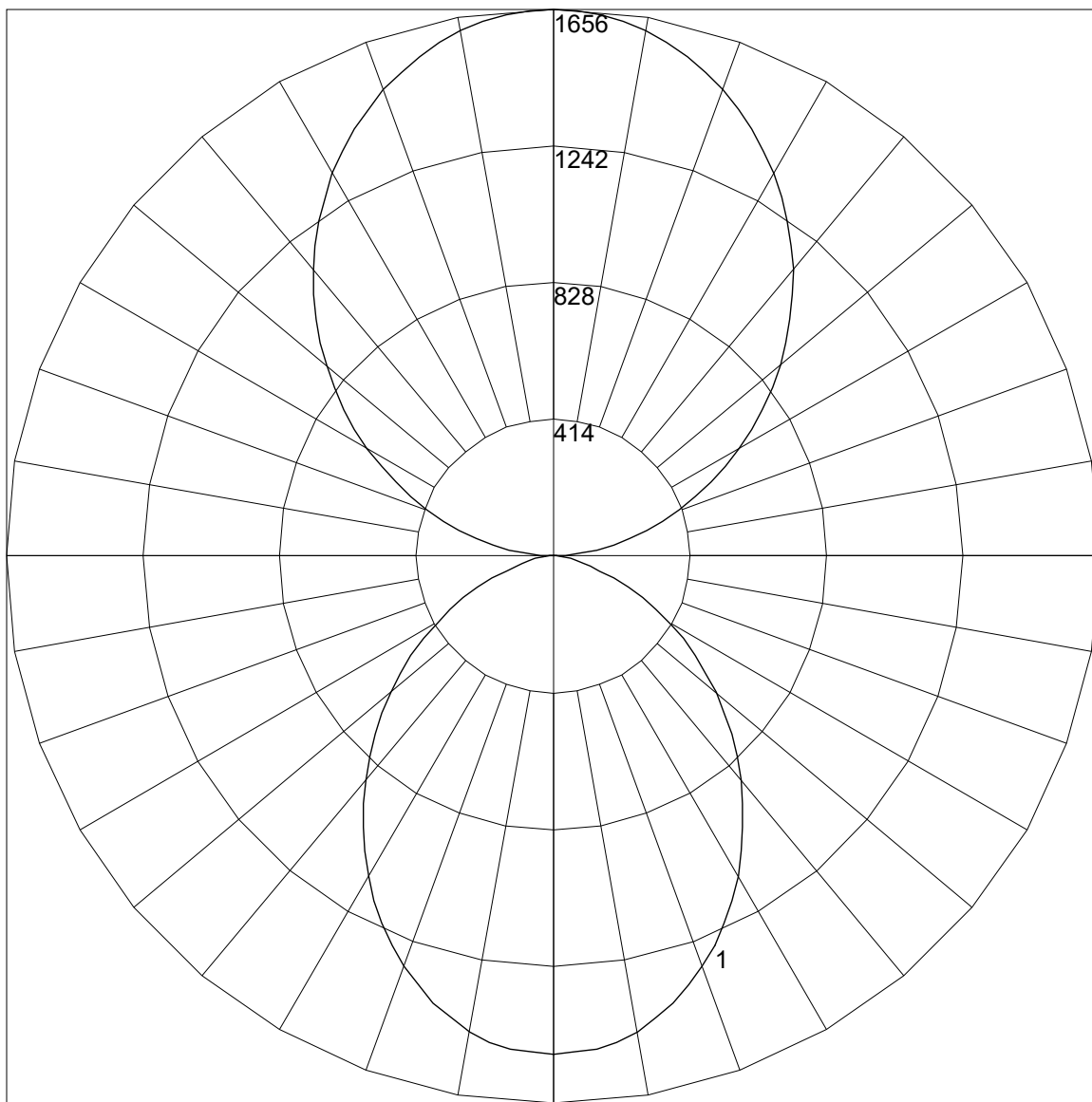
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	44
1	97	93	89	86	89	85	82	79	71	69	66	58	56	55	46	45	44	38
2	88	81	75	70	81	75	70	65	62	59	55	51	48	46	40	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	67	58	52	46	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	26	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	15	13
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12

POLAR GRAPH



Maximum Candela = 1656 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)