

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

IF03RMx xx DWDD1015 DLWFGPMW

Nom 3" diam Infinium, dim to warm 15L emitter - Wide flood optic, No lens

Test Number

SP-00942_M-15L

Test Date

5/1/2019

The results contained in this report pertain only to this IES file.

Summary of Results

Power

Input Watts	17.2 W
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Lumen Output

Output Lumens	949
Efficacy	55.16 lm/W

Luminous Dimensions

0° - 180° Size	-0.22
90° - 270° Size	-0.22
Height	0

Spacing Criterion

Two luminaires, plane 0°	0.9
Two luminaires, plane 90°	0.9
Four luminaires	0.83

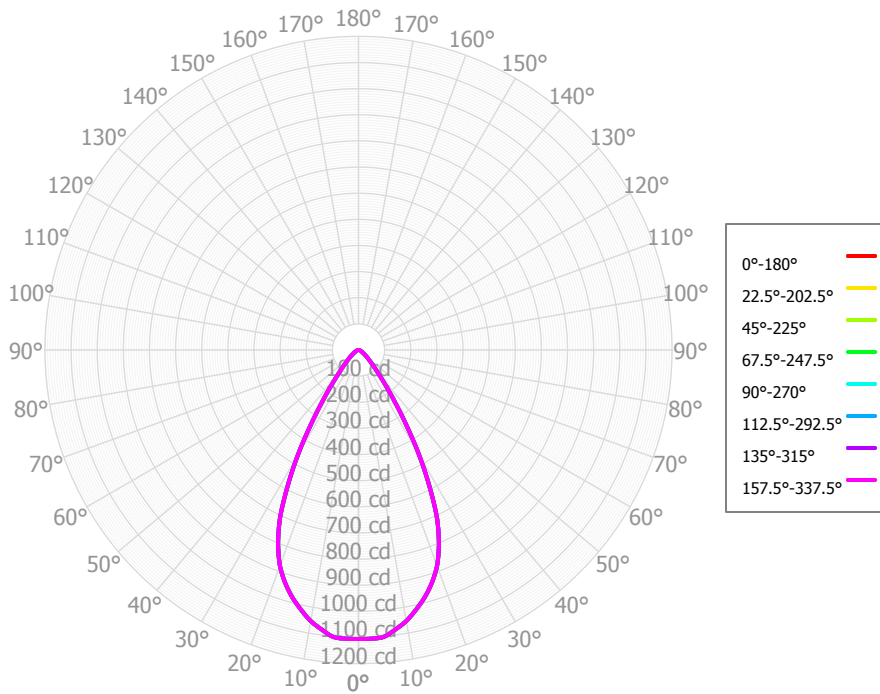
Full Beam Angle

0° - 180°	56°
90° - 270°	56°

IES File Header Contents

Keyword	Value
TEST	SP-00942_M-15L
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	5/1/2019
ISSUEDATE	11/14/2019
LUMCAT	IF03RMx xx DWDD1015 DLWFGPMW
LUMINAIRE	Nom 3" diam Infinium, dim to warm 15L emitter - Wide flood optic, No lens
OTHER	Beam Angle: 56.4 degrees
LAMPCAT	N/A
LAMP	N/A
OTHER	CCT Output Multipliers: N/A - dim to warm
OTHER	Total luminaire wattage is approximate
OTHER	This report prepared by Spectrum Lighting

Candela Polar Plot



Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0.00° - 10.00°	104.91	11.06%	90.00° - 100.00°	0.15	0.02%
10.00° - 20.00°	273.20	28.79%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	314.26	33.12%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	159.19	16.78%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	55.46	5.84%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	24.18	2.55%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	11.10	1.17%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	4.92	0.52%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	1.45	0.15%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	948.67	99.98%	0.00° - 180.00°	948.81	100.00%

Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

RCR	pfc	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	0%
	pcc	80%	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	10%	0%
	pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	30%
	0	1,130	1,130	1,130	1,130	1,103	1,103	1,103	1,103	1,054	1,054	1,054	1,009	1,009	1,009	968	968	968	949
	1	1,075	1,048	1,024	1,002	1,052	1,028	1,006	986	989	972	956	954	940	927	921	911	900	892
	2	1,021	974	935	902	1,000	957	922	892	926	897	872	898	874	853	872	852	835	836
	3	969	907	859	821	950	894	849	814	869	831	801	845	814	788	824	798	776	783
	4	920	847	794	753	902	836	787	749	816	773	740	797	760	731	779	748	723	734
	5	873	793	738	696	858	784	732	693	767	722	687	751	712	681	737	702	675	690
	6	830	745	688	647	816	737	684	645	723	676	640	710	668	636	697	660	632	649
	7	790	701	644	604	777	695	641	602	683	634	599	671	628	596	661	622	593	612
	8	752	662	605	566	740	656	602	565	646	597	562	636	592	560	627	587	557	578
	9	717	626	570	532	707	621	567	531	612	563	529	604	559	527	596	555	525	547
	10	684	593	538	501	675	589	536	501	581	533	499	574	529	498	567	526	496	518

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	36.6 fc	5.9 ft
6.5 ft	26.2 fc	7.0 ft
7.5 ft	19.7 fc	8.0 ft
8.0 ft	17.3 fc	8.6 ft
10.0 ft	11.1 fc	10.7 ft
12.0 ft	7.7 fc	12.9 ft
14.0 ft	5.6 fc	15.0 ft
16.0 ft	4.3 fc	17.2 ft
20.0 ft	2.8 fc	21.4 ft
24.0 ft	1.9 fc	25.7 ft
28.0 ft	1.4 fc	30.0 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	313,229	313,229	313,229
45.00°	27,185	27,185	27,185
55.00°	12,939	12,939	12,939
65.00°	7,265	7,265	7,265
75.00°	5,029	5,029	5,029
85.00°	3,878	3,878	3,878

UGR CIE 190:2010

Ceiling reflectance		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall reflectance		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Plane reflectance		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
2H	2H	13.4	14.4	13.8	14.8	15.1	13.4	14.4	13.8	14.8	15.1
	3H	14.1	15.0	14.5	15.4	15.7	14.1	15.0	14.5	15.4	15.7
	4H	14.4	15.2	14.8	15.6	15.9	14.4	15.2	14.8	15.6	15.9
	6H	14.5	15.3	14.9	15.6	16.0	14.5	15.3	14.9	15.6	16.0
	8H	14.5	15.2	14.9	15.6	16.0	14.5	15.2	14.9	15.6	16.0
	12H	14.5	15.2	14.9	15.6	16.0	14.5	15.2	14.9	15.6	16.0
4H	2H	13.6	14.4	14.0	14.8	15.1	13.6	14.4	14.0	14.8	15.1
	3H	14.5	15.1	14.9	15.5	16.0	14.5	15.1	14.9	15.5	16.0
	4H	14.8	15.4	15.2	15.8	16.3	14.8	15.4	15.2	15.8	16.3
	6H	15.0	15.5	15.4	15.9	16.4	15.0	15.5	15.4	15.9	16.4
	8H	15.0	15.5	15.5	15.9	16.4	15.0	15.5	15.5	15.9	16.4
	12H	15.0	15.4	15.5	15.9	16.4	15.0	15.4	15.5	15.9	16.4
8H	4H	14.8	15.3	15.3	15.7	16.2	14.8	15.3	15.3	15.7	16.2
	6H	15.1	15.5	15.6	16.0	16.4	15.1	15.5	15.6	16.0	16.4
	8H	15.1	15.5	15.6	16.0	16.5	15.1	15.5	15.6	16.0	16.5
	12H	15.2	15.5	15.7	16.0	16.6	15.2	15.5	15.7	16.0	16.6
12H	4H	14.8	15.2	15.3	15.7	16.2	14.8	15.2	15.3	15.7	16.2
	6H	15.0	15.4	15.6	15.9	16.4	15.0	15.4	15.6	15.9	16.4
	8H	15.1	15.4	15.6	15.9	16.5	15.1	15.4	15.6	15.9	16.5

Corrected UGR values based on total output lumens

SHR = 1.0