

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

SLO3IND8 05L 35K LW xx xx MW

Specline Linear Pendant, 1.8" aperture x 8' Long, Matte White Refl

Test Number

SP-01436

Test Date

6/3/2022

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

Summary of Results

Power

Input Watts	38 W
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Lumen Output

Output Lumens	3013
Efficacy	79.28 lm/W

Luminous Dimensions

0° - 180° Size	0.15
90° - 270° Size	8
Height	0

Spacing Criterion

Two luminaires, plane 0°	1.9
Two luminaires, plane 90°	1.2
Four luminaires	1.72

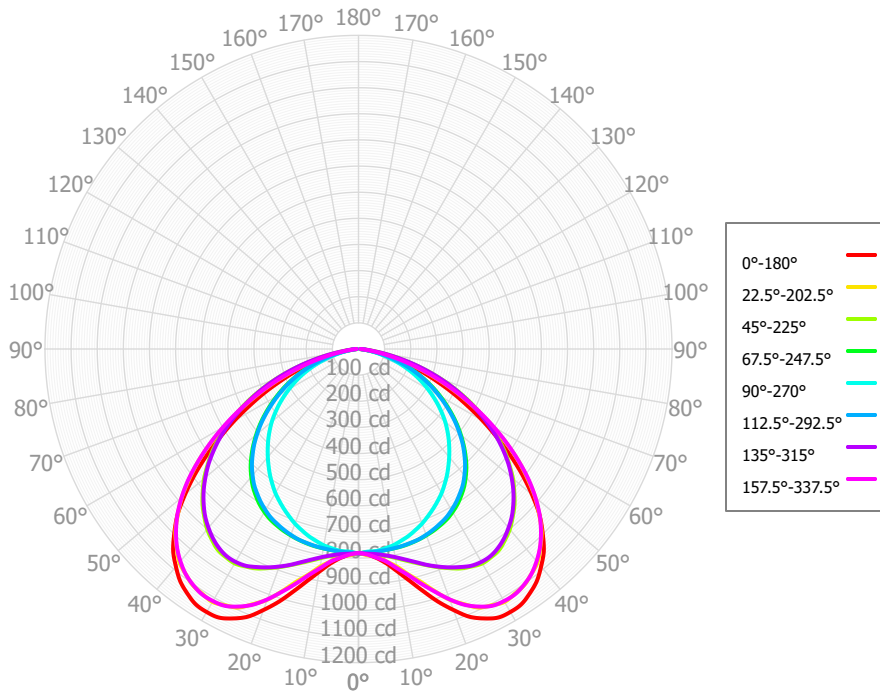
Full Beam Angle

0° - 180°	118°
90° - 270°	72°

IES File Header Contents

Keyword	Value
TEST	SP-01436
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	6/3/2022
ISSUEDATE	11/11/2022
LUMCAT	SL03IND8 05L 35K LW xx xx MW
LUMINAIRE	Specline Linear Pendant, 1.8" aperture x 8' Long, Matte White Refl
OTHER	Wide Extruded Acrylic Lens, Batwing Distribution
OTHER	Data for 8' IND fixture, or 8' module for continuous ROW
OTHER	118 deg x 73 deg Beam Angle
LAMP	N/A, Min. 80 CRI
LAMPCAT	N/A
OTHER	Reference project SL473
OTHER	05L designation for Spectrum linear product indicates 377 Source Lm/Ft.
OTHER	CCT Output Multipliers: 40K x 1.02, 30K x 0.97
OTHER	Total Luminaire Watts 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°	77.27	2.56%	90.00° - 100.00°	0.00	0.00%
10.00° - 20.00°	241.95	8.03%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	422.02	14.01%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	559.42	18.57%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	604.90	20.08%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	534.99	17.76%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	371.87	12.34%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	170.63	5.66%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	29.73	0.99%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	3012.79	100.00%	0.00° - 180.00°	3012.79	100.00%

Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°	112.50°	135.00°	157.50°	180.00°	202.50°	225.00°	247.50°	270.00°	292.50°	315.00°	337.50°	360.00°
0.00°	781.79	781.79	781.79	781.79	781.79	781.79	781.79	781.79	781.79	781.79	781.79	781.79	781.79	781.79	781.79	781.79	781.79
2.50°	788.15	790.16	780.62	778.74	776.62	779.56	784.48	787.86	788.15	790.16	780.62	778.74	776.62	779.56	784.48	787.86	788.15
5.00°	803.38	794.88	786.79	778.02	776.33	778.49	788.36	801.91	803.38	794.88	786.79	778.02	776.33	778.49	788.36	801.91	803.38
7.50°	828.63	819.95	798.11	776.69	769.92	776.70	796.78	820.64	828.63	819.95	798.11	776.69	769.92	776.70	796.78	820.64	828.63
10.00°	865.63	845.89	811.93	775.02	763.19	774.53	809.02	852.26	865.63	845.89	811.93	775.02	763.19	774.53	809.02	852.26	865.63
12.50°	909.65	884.17	828.98	773.10	752.05	772.14	825.36	887.21	909.65	884.17	828.98	773.10	752.05	772.14	825.36	887.21	909.65
15.00°	960.20	922.71	847.45	769.64	740.61	768.53	844.43	930.40	960.20	922.71	847.45	769.64	740.61	768.53	844.43	930.40	960.20
17.50°	1014.31	972.16	867.71	765.05	726.16	764.26	866.18	974.32	1014.31	972.16	867.71	765.05	726.16	764.26	866.18	974.32	1014.31
20.00°	1063.14	1021.28	888.69	759.10	711.32	757.00	886.22	1019.90	1063.14	1021.28	888.69	759.10	711.32	757.00	886.22	1019.90	1063.14
22.50°	1109.35	1057.18	908.00	752.24	693.34	748.22	904.72	1059.72	1109.35	1057.18	908.00	752.24	693.34	748.22	904.72	1059.72	1109.35
25.00°	1138.00	1092.06	926.73	743.63	675.20	737.98	920.96	1087.88	1138.00	1092.06	926.73	743.63	675.20	737.98	920.96	1087.88	1138.00
27.50°	1158.76	1105.67	938.33	733.97	656.07	727.04	935.33	1108.18	1158.76	1105.67	938.33	733.97	656.07	727.04	935.33	1108.18	1158.76
30.00°	1162.41	1117.95	947.69	720.41	636.36	712.05	940.96	1114.07	1162.41	1117.95	947.69	720.41	636.36	712.05	940.96	1114.07	1162.41
32.50°	1159.17	1111.80	944.89	704.69	613.47	695.37	940.02	1113.75	1159.17	1111.80	944.89	704.69	613.47	695.37	940.02	1113.75	1159.17
35.00°	1142.41	1104.58	938.71	685.29	590.21	676.16	930.29	1103.06	1142.41	1104.58	938.71	685.29	590.21	676.16	930.29	1103.06	1142.41
37.50°	1120.75	1086.38	921.18	664.04	565.17	656.00	914.51	1086.36	1120.75	1086.38	921.18	664.04	565.17	656.00	914.51	1086.36	1120.75
40.00°	1087.26	1066.17	900.88	638.52	539.98	630.83	893.38	1060.51	1087.26	1066.17	900.88	638.52	539.98	630.83	893.38	1060.51	1087.26
42.50°	1049.96	1029.86	873.33	611.05	514.17	603.99	868.88	1028.51	1049.96	1029.86	873.33	611.05	514.17	603.99	868.88	1028.51	1049.96
45.00°	997.10	991.30	844.26	579.48	488.08	573.38	838.24	987.95	997.10	991.30	844.26	579.48	488.08	573.38	838.24	987.95	997.10
47.50°	939.79	938.12	808.53	546.24	461.00	541.66	804.07	940.42	939.79	938.12	808.53	546.24	461.00	541.66	804.07	940.42	939.79
50.00°	866.87	882.87	771.61	511.20	433.07	506.53	765.13	883.98	866.87	882.87	771.61	511.20	433.07	506.53	765.13	883.98	866.87
52.50°	790.05	816.32	727.92	475.50	402.44	470.50	723.70	820.47	790.05	816.32	727.92	475.50	402.44	470.50	723.70	820.47	790.05
55.00°	709.06	747.92	683.22	437.73	371.34	432.31	676.55	748.71	709.06	747.92	683.22	437.73	371.34	432.31	676.55	748.71	709.06
57.50°	627.16	670.96	631.51	399.30	338.89	393.62	626.69	674.95	627.16	670.96	631.51	399.30	338.89	393.62	626.69	674.95	627.16
60.00°	548.17	594.27	578.95	361.06	306.52	355.35	571.85	599.06	548.17	594.27	578.95	361.06	306.52	355.35	571.85	599.06	548.17
62.50°	469.74	518.63	520.63	322.90	274.39	317.16	514.87	523.01	469.74	518.63	520.63	322.90	274.39	317.16	514.87	523.01	469.74
65.00°	397.88	443.57	461.77	282.63	241.66	279.20	456.24	446.81	397.88	443.57	461.77	282.63	241.66	279.20	456.24	446.81	397.88
67.50°	327.06	370.58	399.86	241.84	207.60	241.27	396.98	373.72	327.06	370.58	399.86	241.84	207.60	241.27	396.98	373.72	327.06
70.00°	264.66	299.39	337.73	202.09	173.26	201.23	335.16	303.43	264.66	299.39	337.73	202.09	173.26	201.23	335.16	303.43	264.66
72.50°	203.32	233.86	272.92	162.59	138.34	160.90	272.46	237.56	203.32	233.86	272.92	162.59	138.34	160.90	272.46	237.56	203.32
75.00°	150.84	171.41	207.98	125.94	105.14	124.57	210.99	175.32	150.84	171.41	207.98	125.94	105.14	124.57	210.99	175.32	150.84
77.50°	99.26	117.55	150.52	89.84	75.13	88.68	149.88	121.15	99.26	117.55	150.52	89.84	75.13	88.68	149.88	121.15	99.26
80.00°	64.37	70.34	93.24	60.93	49.09	60.17	99.40	73.08	64.37	70.34	93.24	60.93	49.09	60.17	99.40	73.08	64.37
82.50°	30.75	39.85	56.70	33.18	29.74	32.26	51.78	41.49	30.75	39.85	56.70	33.18	29.74	32.26	51.78	41.49	30.75
85.00°	19.14	16.74	20.78	20.33	15.70	20.24	29.00	21.26	19.14	16.74	20.78	20.33	15.70	20.24	29.00	21.26	19.14
87.50°	8.63	10.29	13.18	9.45	9.86	9.15	12.06	11.30	8.63	10.29	13.18	9.45	9.86	9.15	12.06	11.30	8.63
90.00°	7.11	5.90	5.89	7.03	6.20	7.18	7.42	7.81	7.11	5.90	5.89	7.03	6.20	7.18	7.42	7.81	7.11

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	3587	3587	3587	3587	3503	3503	3503	3503	3348	3348	3348	3205	3205	3205	3074	3074	3074	3013
	1	3287	3147	3022	2910	3205	3079	2965	2862	2951	2858	2772	2834	2758	2687	2726	2664	2607	2608
	2	2987	2741	2537	2367	2907	2684	2497	2338	2577	2419	2283	2478	2346	2231	2387	2278	2181	2228
	3	2717	2399	2153	1957	2642	2351	2123	1939	2261	2066	1905	2178	2011	1871	2101	1960	1839	1916
	4	2480	2116	1850	1646	2411	2076	1827	1634	2000	1783	1611	1929	1741	1589	1864	1702	1567	1664
	5	2274	1882	1608	1405	2210	1848	1590	1397	1783	1556	1382	1723	1523	1366	1667	1492	1351	1459
	6	2093	1685	1412	1216	2035	1657	1398	1210	1602	1371	1199	1550	1345	1188	1502	1320	1177	1292
	7	1935	1520	1252	1064	1882	1496	1241	1060	1449	1219	1052	1405	1198	1044	1364	1178	1036	1154
	8	1795	1381	1120	940	1747	1359	1110	937	1319	1093	931	1281	1075	925	1246	1059	919	1038
	9	1672	1261	1009	839	1629	1243	1001	836	1208	987	832	1175	972	827	1144	959	822	940
	10	1564	1158	915	754	1524	1142	909	752	1112	897	748	1083	885	745	1056	873	741	857

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	25.8 fc	18.3 ft
6.5 ft	18.5 fc	21.6 ft
7.5 ft	13.9 fc	24.9 ft
8.0 ft	12.2 fc	26.6 ft
10.0 ft	7.8 fc	33.2 ft
12.0 ft	5.4 fc	39.9 ft
14.0 ft	4.0 fc	46.5 ft
16.0 ft	3.1 fc	53.2 ft
20.0 ft	2.0 fc	66.5 ft
24.0 ft	1.4 fc	79.7 ft
28.0 ft	1.0 fc	93.0 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	7013	7013	7013
45.00°	12649	10710	6191
55.00°	11089	10685	5807
65.00°	8445	9801	5129
75.00°	5228	7208	3644
85.00°	1969	2138	1615

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	21.5	23.2	21.9	23.5	23.8	17.7	19.4	18.1	19.7	20.0
	3H	22.7	24.2	23.1	24.5	24.9	19.2	20.7	19.6	21.0	21.4
	4H	23.0	24.4	23.4	24.7	25.1	19.6	21.0	20.0	21.4	21.7
	6H	23.1	24.4	23.5	24.8	25.2	19.8	21.1	20.2	21.5	21.9
	8H	23.1	24.3	23.5	24.7	25.1	19.8	21.1	20.3	21.5	21.9
	12H	23.1	24.3	23.5	24.7	25.1	19.9	21.0	20.3	21.4	21.8
4H	2H	22.1	23.5	22.5	23.8	24.2	19.4	20.8	19.8	21.1	21.5
	3H	23.5	24.6	23.9	25.0	25.4	20.9	22.1	21.3	22.5	22.9
	4H	23.9	24.9	24.3	25.3	25.8	21.3	22.4	21.7	22.8	23.2
	6H	24.0	25.0	24.5	25.4	25.9	21.6	22.5	22.0	22.9	23.4
	8H	24.1	24.9	24.5	25.4	25.8	21.6	22.4	22.0	22.9	23.3
	12H	24.1	24.8	24.5	25.3	25.8	21.6	22.4	22.1	22.8	23.3
8H	4H	24.1	24.9	24.5	25.4	25.8	21.8	22.7	22.3	23.1	23.6
	6H	24.3	25.0	24.8	25.5	26.0	22.1	22.8	22.6	23.3	23.8
	8H	24.3	25.0	24.8	25.5	25.9	22.2	22.8	22.7	23.3	23.8
	12H	24.3	24.9	24.8	25.4	26.0	22.2	22.8	22.7	23.3	23.8
12H	4H	24.1	24.8	24.5	25.3	25.8	21.8	22.6	22.3	23.1	23.6
	6H	24.3	24.9	24.8	25.4	25.9	22.2	22.8	22.7	23.3	23.8
	8H	24.4	24.9	24.9	25.4	26.0	22.3	22.8	22.8	23.3	23.9

Corrected UGR values based on total output energy
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0