

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

SLO3IND8 05L 35HK LW xx xx MW

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

Test Number

SP-01374

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	2687
Efficacy	70.71 lm/W

Luminous Dimensions

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

Spacing Criterion

Two luminaires, plane 0°	1.88
Two luminaires, plane 90°	1.21
Four luminaires	1.69

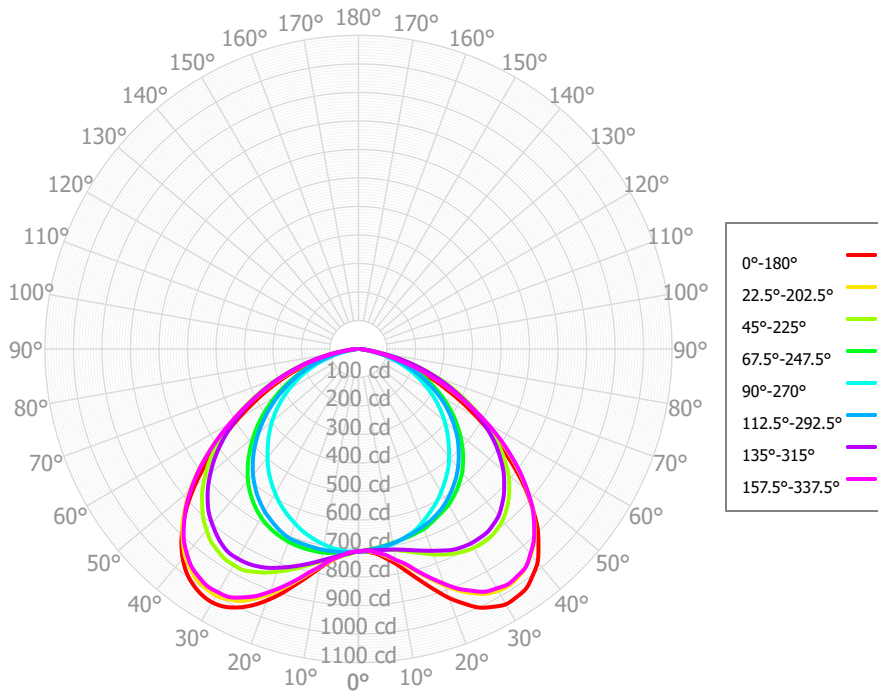
Full Beam Angle

0° - 180°	118°
90° - 270°	76°

IES File Header Contents

Keyword	Value
TEST	SP-01374
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	6/3/2022
ISSUEDATE	11/2/2022
LUMCAT	SL03IND8 05L 35HK 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	76 Deg x 118 Degree Beam Angle
LAMP	N/A, Min. 90 CRI
LAMPCAT	N/A
OTHER	Reference project SL473
OTHER	05L designation for Spectrum linear product indicates 340 Source Lm/Ft.
OTHER	CCT Output Multipliers: 40HK x 1.01, 30HK x 0.98, 27HK x 0.95
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°	70.11	2.61%	90.00° - 100.00°	0.00	0.00%
10.00° - 20.00°	217.21	8.08%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	375.38	13.97%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	498.37	18.55%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	538.20	20.03%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	474.77	17.67%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	331.80	12.35%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	154.66	5.76%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	26.31	0.98%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	2686.82	100.00%	0.00° - 180.00°	2686.82	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°	710.54	710.54	710.54	710.54	710.54	710.54	710.54	710.54	710.54	710.54	710.54	710.54	710.54	710.54	710.54	710.54	710.54
2.50°	712.41	710.68	706.60	705.58	710.49	714.18	717.67	714.19	714.80	717.26	720.34	713.11	711.34	707.19	707.84	707.24	712.41
5.00°	721.26	717.73	706.80	701.00	706.40	715.12	727.26	730.15	727.42	730.58	730.90	716.73	708.38	702.62	708.56	717.74	721.26
7.50°	741.20	732.34	709.57	696.11	701.68	715.39	739.63	747.24	750.92	750.76	742.57	721.52	704.36	698.00	710.89	728.91	741.20
10.00°	766.59	752.78	716.11	691.14	694.20	715.23	753.82	774.98	779.88	775.64	757.67	725.13	696.48	692.39	714.43	751.26	766.59
12.50°	802.01	779.52	725.22	686.44	686.28	713.94	769.82	803.58	816.90	807.20	774.46	725.52	687.99	685.64	721.50	773.90	802.01
15.00°	841.81	810.97	737.71	681.80	676.16	712.00	785.70	838.38	856.46	842.88	793.30	725.14	677.58	678.38	730.95	808.06	841.81
17.50°	885.10	847.02	751.56	676.82	665.76	709.68	801.46	872.96	899.42	879.71	813.04	722.88	666.12	670.59	741.78	842.21	885.10
20.00°	929.74	882.38	767.06	671.78	649.71	707.16	816.56	906.31	938.68	917.18	831.35	719.44	651.72	662.40	753.44	876.29	929.74
22.50°	966.73	917.15	780.66	661.91	633.12	698.12	831.12	937.98	973.46	947.98	849.10	713.43	636.91	653.84	765.48	909.94	966.73
25.00°	1001.10	945.19	792.22	651.39	616.16	686.05	840.95	961.56	1000.56	975.47	862.63	705.94	621.06	643.47	777.71	935.62	1001.10
27.50°	1020.00	967.85	800.83	641.52	599.18	672.38	847.33	981.34	1019.26	990.24	874.70	695.61	604.07	631.56	784.25	960.07	1020.00
30.00°	1034.26	979.59	806.54	631.72	579.54	658.04	848.87	985.54	1026.62	999.37	875.58	682.98	584.57	616.92	788.00	969.80	1034.26
32.50°	1032.05	983.43	808.01	617.11	559.80	640.35	847.20	986.54	1022.77	996.47	873.06	666.42	564.62	600.17	787.82	977.98	1032.05
35.00°	1025.58	977.26	805.76	602.13	539.40	621.44	836.06	976.27	1010.38	988.84	862.86	648.13	543.78	582.42	785.92	972.30	1025.58
37.50°	1003.28	964.57	797.98	584.22	518.94	599.14	819.27	962.29	990.36	970.02	850.65	627.16	521.37	563.99	776.68	964.09	1003.28
40.00°	977.50	941.87	785.78	566.16	494.22	575.75	799.38	936.94	959.49	947.32	829.33	603.34	496.19	543.01	764.59	938.37	977.50
42.50°	934.65	913.30	767.59	542.61	469.51	548.90	777.83	907.22	919.86	912.58	805.97	575.54	471.38	520.43	744.35	910.60	934.65
45.00°	888.66	873.79	745.06	518.93	444.92	521.10	748.72	865.77	870.85	874.18	775.51	546.08	447.13	496.79	721.34	871.28	888.66
47.50°	828.54	828.52	717.67	491.90	420.25	490.07	715.99	820.72	815.00	824.64	743.72	514.52	422.06	472.56	693.18	829.22	828.54
50.00°	766.30	773.28	687.10	464.81	394.20	458.27	678.12	767.08	752.34	772.18	704.14	481.93	395.80	445.64	663.50	774.26	766.30
52.50°	694.98	713.36	648.87	435.50	368.02	425.13	638.06	710.49	685.19	711.70	663.36	448.14	368.50	417.38	627.00	717.60	694.98
55.00°	622.58	649.38	606.13	406.06	340.49	391.71	593.70	647.69	617.71	649.42	615.67	412.92	339.87	387.64	588.75	654.15	622.58
57.50°	551.98	583.72	559.37	374.39	312.77	357.17	547.73	584.29	550.04	583.20	567.15	376.22	310.78	357.24	544.74	589.60	551.98
60.00°	481.53	516.86	510.48	342.56	283.49	322.44	498.32	519.76	485.61	516.23	514.00	339.07	281.16	324.70	499.47	521.26	481.53
62.50°	414.91	449.56	459.21	308.86	254.21	287.56	447.78	456.70	422.91	453.91	460.41	301.51	250.84	291.32	448.14	453.11	414.91
65.00°	348.52	383.67	406.82	274.98	224.91	252.66	395.57	396.14	365.02	392.30	404.74	263.55	219.79	257.03	395.71	385.52	348.52
67.50°	288.82	318.24	352.28	239.50	195.46	218.32	342.88	337.47	309.41	333.46	348.95	225.25	188.66	222.42	342.47	319.21	288.82
70.00°	229.35	256.30	296.83	203.80	165.20	184.03	289.69	281.72	256.34	274.95	294.31	187.24	157.45	188.48	289.11	256.27	229.35
72.50°	176.76	195.36	239.90	166.55	134.82	148.53	236.37	227.48	204.34	221.70	239.72	149.47	126.14	154.74	234.48	195.58	176.76
75.00°	124.44	142.68	182.42	129.62	103.88	112.93	186.17	175.30	155.42	168.93	186.70	113.07	94.74	118.76	179.69	140.11	124.44
77.50°	84.42	92.02	129.54	94.48	74.60	81.08	136.64	126.22	107.64	119.83	133.80	77.62	67.31	82.18	126.91	90.71	84.42
80.00°	45.34	56.89	78.15	61.52	51.59	49.41	92.81	81.00	69.78	70.96	87.97	49.94	43.01	54.58	74.31	53.93	45.34
82.50°	27.08	24.96	45.24	38.56	31.12	31.44	50.00	46.37	35.20	43.32	43.27	27.13	25.98	29.04	44.05	25.85	27.08
85.00°	9.90	14.20	17.58	18.74	18.97	13.79	28.78	23.71	19.37	16.44	25.06	14.61	14.11	16.80	15.11	13.97	9.90
87.50°	7.50	7.05	9.36	11.23	9.38	9.17	10.64	10.63	8.95	10.77	7.94	7.85	8.04	7.14	9.96	6.32	7.50
90.00°	5.33	5.84	5.90	5.33	7.05	4.68	7.36	7.33	6.19	5.39	6.39	5.24	5.68	5.18	5.56	5.72	5.33

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	3199	3199	3199	3199	3124	3124	3124	3124	2985	2985	2985	2858	2858	2858	2742	2742	2742	2687
	1	2931	2807	2695	2594	2858	2746	2644	2552	2632	2548	2471	2527	2459	2396	2430	2376	2325	2325
	2	2663	2444	2262	2110	2593	2393	2226	2085	2297	2157	2036	2209	2092	1989	2128	2031	1945	1986
	3	2423	2139	1920	1745	2356	2097	1893	1729	2016	1842	1698	1942	1793	1668	1873	1747	1640	1708
	4	2212	1887	1650	1468	2150	1851	1629	1458	1784	1590	1437	1721	1553	1417	1662	1517	1398	1484
	5	2028	1678	1434	1254	1971	1648	1418	1247	1590	1388	1233	1537	1359	1219	1487	1331	1205	1302
	6	1867	1504	1260	1085	1815	1478	1247	1080	1429	1223	1070	1383	1200	1060	1340	1178	1051	1153
	7	1726	1357	1117	950	1679	1335	1107	946	1293	1088	939	1254	1069	931	1217	1051	924	1030
	8	1602	1232	999	840	1559	1213	991	837	1177	975	831	1143	960	826	1112	945	821	927
	9	1492	1126	901	749	1454	1109	894	747	1078	881	743	1049	868	739	1021	856	735	840
	10	1395	1034	818	674	1360	1020	812	672	993	801	669	967	790	665	943	780	662	766

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	23.5 fc	18.1 ft
6.5 ft	16.8 fc	21.4 ft
7.5 ft	12.6 fc	24.7 ft
8.0 ft	11.1 fc	26.4 ft
10.0 ft	7.1 fc	33.0 ft
12.0 ft	4.9 fc	39.6 ft
14.0 ft	3.6 fc	46.2 ft
16.0 ft	2.8 fc	52.7 ft
20.0 ft	1.8 fc	65.9 ft
24.0 ft	1.2 fc	79.1 ft
28.0 ft	0.9 fc	92.3 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	6374	6374	6374
45.00°	11273	9451	5644
55.00°	9736	9479	5325
65.00°	7397	8635	4774
75.00°	4313	6322	3600
85.00°	1019	1809	1953

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	21.0	22.6	21.3	22.9	23.2	17.6	19.2	18.0	19.6	19.9
	3H	22.1	23.6	22.5	23.9	24.3	19.0	20.5	19.4	20.8	21.2
	4H	22.4	23.8	22.8	24.1	24.5	19.5	20.9	19.9	21.2	21.6
	6H	22.5	23.8	22.9	24.1	24.5	19.7	21.0	20.1	21.3	21.7
	8H	22.5	23.7	22.9	24.1	24.5	19.7	20.9	20.1	21.3	21.7
	12H	22.5	23.7	22.9	24.0	24.5	19.7	20.9	20.1	21.3	21.7
4H	2H	21.5	22.9	21.9	23.3	23.6	19.1	20.5	19.5	20.8	21.2
	3H	22.9	24.1	23.3	24.5	24.9	20.6	21.8	21.0	22.2	22.6
	4H	23.2	24.3	23.7	24.7	25.1	21.0	22.1	21.5	22.5	22.9
	6H	23.4	24.3	23.8	24.7	25.2	21.3	22.2	21.7	22.6	23.1
	8H	23.4	24.2	23.8	24.7	25.2	21.3	22.2	21.8	22.6	23.1
	12H	23.4	24.1	23.9	24.6	25.1	21.3	22.1	21.8	22.6	23.0
8H	4H	23.4	24.3	23.9	24.7	25.2	21.5	22.4	22.0	22.8	23.3
	6H	23.6	24.3	24.1	24.8	25.3	21.8	22.5	22.3	23.0	23.5
	8H	23.6	24.3	24.1	24.8	25.3	21.9	22.5	22.4	23.0	23.5
	12H	23.6	24.2	24.1	24.7	25.2	21.9	22.5	22.4	23.0	23.5
12H	4H	23.4	24.2	23.9	24.7	25.1	21.6	22.3	22.1	22.8	23.3
	6H	23.6	24.3	24.1	24.7	25.3	21.9	22.5	22.4	23.0	23.5
	8H	23.7	24.2	24.2	24.7	25.3	22.0	22.5	22.5	23.0	23.6

Corrected UGR values based on total output energy
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0