

Indoor Distribution Test Report

Spectrum Lighting Inc.

994 Jefferson Street
Fall River, MA 02721
+1.508.678.2303

Spectrum Lighting Photometric Lab

Luminaire

SLO3IND8 05L 35HK DW xx xx MW

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

Test Number

SP-01372

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	2299
Efficacy	60.5 lm/W

Luminous Dimensions

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

Spacing Criterion

Two luminaires, plane 0°	1.25
Two luminaires, plane 90°	1.25
Four luminaires	1.37

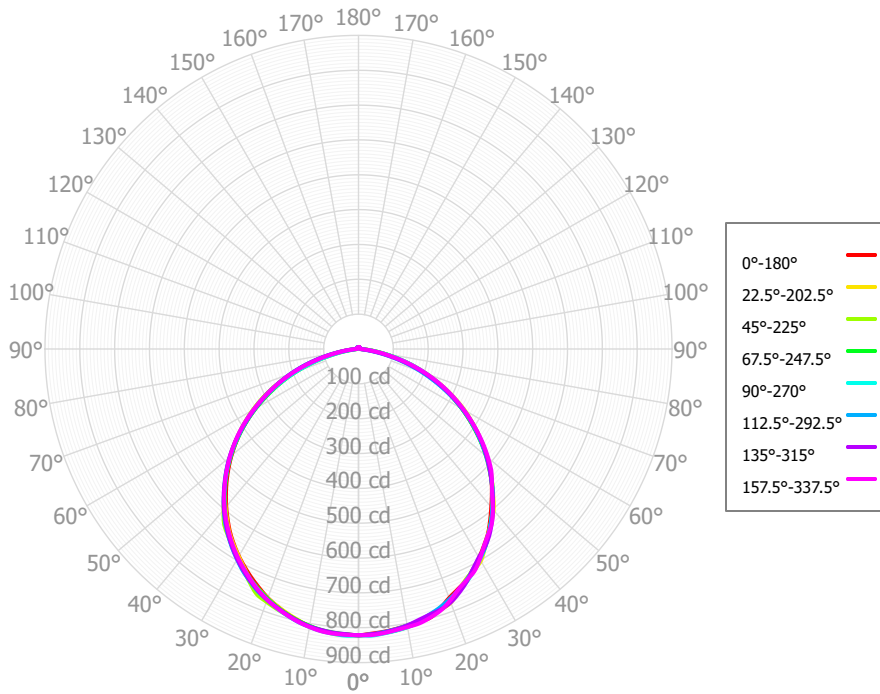
Full Beam Angle

0° - 180°	110°
90° - 270°	110°

IES File Header Contents

Keyword	Value
TEST	SP-01372
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	6/3/2022
ISSUEDATE	11/2/2022
LUMCAT	SLO3IND8 05L 35HK DW xx xx MW
LUMINAIRE	Specline Linear Pendant, 1.8" aperture x 8' Long, Matte White Refl
OTHER	Diffuse White Extruded Acrylic Lens, Symmetric Distribution
OTHER	Data for 8' IND fixture, or 8' module for continuous ROW
OTHER	111 Degree Beam Angle
LAMP	N/A, Min. 90 CRI
LAMPCAT	N/A
OTHER	Reference project SL473
OTHER	05L designation for Spectrum linear product indicates 287.4 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°	78.99	3.44%	90.00° - 100.00°	5.52	0.24%
10.00° - 20.00°	223.14	9.71%	100.00° - 110.00°	5.27	0.23%
20.00° - 30.00°	337.59	14.68%	100.00° - 120.00°	10.27	0.45%
30.00° - 40.00°	405.88	17.65%	120.00° - 130.00°	4.58	0.20%
40.00° - 50.00°	417.07	18.14%	130.00° - 140.00°	4.03	0.18%
50.00° - 60.00°	370.21	16.10%	140.00° - 150.00°	3.24	0.14%
60.00° - 70.00°	271.02	11.79%	150.00° - 160.00°	2.40	0.10%
70.00° - 80.00°	136.21	5.92%	160.00° - 170.00°	1.48	0.06%
80.00° - 90.00°	26.89	1.17%	170.00° - 180.00°	0.51	0.02%
0.00° - 90.00°	2266.99	98.61%	0.00° - 180.00°	2299.01	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°	821.70	821.70	821.70	821.70	821.70	821.70	821.70	821.70	821.70	821.70	821.70	821.70	821.70	821.70	821.70	821.70	821.70
2.50°	818.33	820.53	820.75	820.71	823.70	821.81	819.38	821.39	820.27	821.92	821.15	819.93	823.75	820.47	819.49	822.19	818.33
5.00°	815.22	818.46	817.81	818.50	820.01	818.96	817.78	820.35	819.02	821.07	818.62	817.30	820.97	816.17	817.26	819.15	815.22
7.50°	810.92	812.40	814.32	815.15	815.75	815.71	813.85	817.31	814.74	815.13	815.69	813.60	816.95	811.67	812.36	814.57	810.92
10.00°	806.38	806.26	807.98	810.38	810.75	808.96	808.73	810.48	809.15	808.83	807.85	807.22	810.41	805.88	805.89	810.58	806.38
12.50°	802.20	800.87	800.92	803.03	802.98	801.85	800.17	802.19	798.79	797.66	799.35	799.07	802.26	799.41	796.92	806.86	802.20
15.00°	798.09	795.47	790.49	792.63	791.83	790.45	789.95	791.32	787.83	786.41	790.73	788.62	791.79	789.02	789.47	797.83	798.09
17.50°	780.51	785.18	779.51	780.54	780.05	778.70	778.62	779.35	774.84	774.25	782.09	776.74	779.92	778.03	784.31	786.64	780.51
20.00°	760.73	774.64	766.15	766.56	767.54	766.13	766.77	765.59	760.79	761.82	772.25	762.65	765.43	763.98	774.06	768.63	760.73
22.50°	746.27	751.97	751.52	751.45	753.04	753.51	751.55	749.89	743.37	746.89	762.29	747.26	749.47	749.33	756.55	748.02	746.27
25.00°	732.58	729.61	731.95	735.14	736.38	736.16	734.91	731.18	725.55	731.20	739.20	730.16	732.68	731.90	736.07	732.97	732.58
27.50°	712.82	716.36	712.64	716.15	718.05	718.57	716.07	711.88	706.54	709.37	715.07	712.12	715.45	714.23	711.63	719.86	712.82
30.00°	692.29	702.45	694.33	694.49	698.01	697.31	696.37	691.70	686.86	687.65	694.15	692.72	695.47	695.58	690.88	696.77	692.29
32.50°	670.18	675.70	674.54	672.30	675.73	675.93	674.32	670.29	665.38	666.78	673.44	672.62	674.09	675.62	674.79	670.42	670.18
35.00°	647.90	649.21	649.94	649.62	651.26	652.38	651.40	647.17	642.70	645.22	653.60	648.88	651.33	650.63	654.29	649.07	647.90
37.50°	620.61	626.59	624.85	625.18	625.68	628.78	626.64	623.00	617.03	619.39	633.81	623.38	627.92	625.08	628.51	629.22	620.61
40.00°	592.87	603.35	598.27	599.18	599.05	600.26	601.25	597.47	590.79	593.57	602.79	595.98	600.74	597.59	600.64	599.94	592.87
42.50°	566.60	572.68	571.14	570.82	571.03	571.70	572.94	570.59	563.22	567.78	571.42	567.71	571.90	569.80	570.40	568.04	566.60
45.00°	540.44	542.11	542.51	540.45	541.80	541.58	543.70	542.05	535.15	541.16	542.19	539.02	543.21	541.02	540.40	541.86	540.44
47.50°	510.75	512.58	513.09	509.41	511.39	511.44	513.61	512.54	505.97	510.46	513.00	510.16	514.58	511.45	510.67	517.14	510.75
50.00°	480.85	482.64	481.61	477.83	480.03	480.08	483.27	481.92	476.07	479.59	481.39	478.37	482.14	479.50	480.23	485.65	480.85
52.50°	446.66	449.26	449.56	445.00	447.57	448.60	450.14	450.31	444.72	448.05	449.75	445.44	448.24	447.22	449.08	452.60	446.66
55.00°	412.28	416.07	416.13	411.24	414.27	414.14	416.26	417.61	412.29	416.23	416.15	411.25	414.31	414.03	416.33	418.04	412.28
57.50°	378.18	384.23	382.11	377.18	380.57	379.66	380.58	383.47	377.82	383.34	382.55	376.60	380.36	380.08	382.05	383.16	378.18
60.00°	344.09	351.87	346.80	342.92	346.58	344.77	344.47	347.84	343.71	349.75	348.87	339.82	344.59	344.22	346.61	348.83	344.09
62.50°	309.85	316.20	311.05	308.02	311.86	309.90	309.51	311.97	310.29	313.63	315.02	302.31	308.22	307.44	310.13	314.61	309.85
65.00°	275.60	280.34	274.36	272.69	276.66	275.22	274.80	275.86	275.36	277.27	277.14	265.23	270.06	268.48	273.94	279.53	275.60
67.50°	239.26	243.46	237.99	237.62	241.56	240.53	239.74	239.21	237.87	240.07	239.22	228.29	231.35	229.96	238.00	244.31	239.26
70.00°	202.92	206.63	202.27	202.71	206.53	205.78	204.60	202.07	201.08	203.01	200.81	189.97	191.99	192.43	200.67	207.39	202.92
72.50°	166.57	170.02	166.81	167.94	171.67	170.92	168.91	164.97	165.42	166.35	162.49	151.25	152.46	155.13	162.23	170.23	166.57
75.00°	130.32	133.76	131.82	133.27	136.93	135.14	133.12	127.89	130.00	130.10	125.45	113.44	114.83	118.30	124.83	133.10	130.32
77.50°	96.84	99.17	98.53	100.26	102.94	99.95	99.28	94.07	94.95	95.06	88.92	75.87	77.70	82.71	88.21	95.97	96.84
80.00°	63.88	66.65	68.21	68.18	69.38	69.45	65.76	62.93	64.40	62.91	57.95	47.71	49.73	49.54	57.27	66.34	63.88
82.50°	41.63	42.78	42.16	42.90	43.32	40.72	42.02	39.22	40.16	38.60	28.87	21.84	23.89	24.09	30.34	37.56	41.63
85.00°	20.29	22.00	23.16	21.12	21.25	24.29	19.66	21.24	22.07	18.85	17.03	12.01	13.84	12.90	15.23	22.05	20.29
87.50°	12.73	12.96	10.38	10.92	11.08	9.81	11.54	10.95	12.16	10.63	6.47	5.75	7.12	5.72	7.97	7.81	12.73
90.00°	5.71	5.78	7.19	6.34	6.88	7.22	5.16	6.26	6.30	4.73	5.84	4.62	5.77	5.49	5.09	5.84	5.71
92.50°	5.33	5.13	5.32	4.95	5.31	5.03	4.54	4.41	5.51	4.32	5.28	4.53	5.43	5.28	4.96	4.82	5.33
95.00°	4.99	4.64	5.37	4.99	4.99	5.02	4.53	4.52	5.02	4.09	5.29	4.59	5.32	5.11	4.86	4.75	4.99
97.50°	4.99	4.68	5.33	5.17	5.05	5.03	4.71	4.52	4.89	4.27	5.32	4.68	5.25	5.11	4.76	4.74	4.99
100.00°	4.98	4.72	5.19	5.41	5.29	5.11	4.92	4.45	4.79	4.35	5.50	4.72	5.45	5.40	4.83	4.97	4.98

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	2729	2729	2729	2729	2662	2662	2662	2662	2537	2537	2537	2422	2422	2422	2317	2317	2317	2267
	1	2503	2397	2303	2217	2437	2342	2256	2178	2239	2168	2104	2144	2087	2034	2057	2011	1968	1965
	2	2279	2095	1942	1814	2216	2049	1908	1790	1962	1844	1743	1882	1784	1699	1809	1728	1656	1688
	3	2080	1842	1658	1511	2020	1803	1633	1496	1730	1585	1465	1663	1539	1435	1600	1496	1407	1461
	4	1905	1633	1434	1282	1850	1600	1415	1271	1539	1378	1250	1482	1343	1230	1428	1309	1210	1278
	5	1752	1460	1255	1105	1701	1432	1240	1097	1380	1211	1082	1331	1183	1067	1286	1157	1053	1130
	6	1618	1314	1111	964	1572	1291	1099	959	1246	1075	948	1205	1053	937	1166	1031	926	1008
	7	1500	1192	992	852	1459	1172	982	847	1134	963	839	1098	945	831	1064	927	823	907
	8	1397	1088	893	760	1359	1070	885	756	1037	869	750	1006	854	743	977	840	737	823
	9	1305	998	810	683	1271	983	804	681	955	791	675	928	778	670	902	766	665	751
	10	1223	921	740	619	1192	908	734	617	883	723	613	859	713	609	837	702	605	689

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	27.2 fc	15.7 ft
6.5 ft	19.4 fc	18.6 ft
7.5 ft	14.6 fc	21.4 ft
8.0 ft	12.8 fc	22.9 ft
10.0 ft	8.2 fc	28.6 ft
12.0 ft	5.7 fc	34.3 ft
14.0 ft	4.2 fc	40.0 ft
16.0 ft	3.2 fc	45.8 ft
20.0 ft	2.1 fc	57.2 ft
24.0 ft	1.4 fc	68.6 ft
28.0 ft	1.0 fc	80.1 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	7371	7371	7371
45.00°	6856	6882	6873
55.00°	6447	6508	6479
65.00°	5850	5823	5872
75.00°	4517	4568	4746
85.00°	2088	2384	2187

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	18.6	20.2	19.0	20.5	20.9	18.5	20.1	18.9	20.5	20.8
	3H	20.3	21.7	20.7	22.1	22.5	20.2	21.6	20.6	21.9	22.3
	4H	20.8	22.2	21.2	22.5	23.0	20.7	22.0	21.1	22.4	22.8
	6H	21.1	22.4	21.6	22.8	23.2	20.9	22.2	21.4	22.6	23.0
	8H	21.2	22.4	21.6	22.8	23.2	21.0	22.2	21.4	22.6	23.0
	12H	21.2	22.4	21.7	22.8	23.2	21.0	22.1	21.5	22.5	23.0
4H	2H	19.2	20.5	19.6	20.9	21.3	19.1	20.5	19.6	20.9	21.3
	3H	21.1	22.2	21.5	22.6	23.1	21.0	22.1	21.4	22.5	22.9
	4H	21.7	22.7	22.2	23.2	23.6	21.6	22.6	22.0	23.0	23.5
	6H	22.1	23.0	22.6	23.5	24.0	21.9	22.8	22.4	23.3	23.8
	8H	22.2	23.0	22.7	23.5	24.0	22.0	22.8	22.5	23.3	23.8
	12H	22.3	23.0	22.8	23.5	24.0	22.0	22.8	22.5	23.3	23.8
8H	4H	21.9	22.8	22.4	23.2	23.7	21.8	22.6	22.3	23.1	23.6
	6H	22.4	23.1	22.9	23.6	24.1	22.2	22.9	22.7	23.4	23.9
	8H	22.5	23.2	23.1	23.7	24.2	22.3	22.9	22.8	23.4	24.0
	12H	22.6	23.2	23.2	23.7	24.3	22.4	22.9	22.9	23.4	24.0
12H	4H	21.9	22.7	22.4	23.2	23.7	21.8	22.5	22.3	23.0	23.5
	6H	22.4	23.0	23.0	23.5	24.1	22.2	22.8	22.8	23.3	23.9
	8H	22.6	23.1	23.1	23.6	24.2	22.3	22.9	22.9	23.4	24.0

Corrected UGR values based on total output energy
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0