

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

SLO3IND8 25L 35HK LA xx xx MW
Specline Linear Pendant, 1.8" aperture x 8' Long, Matte White Refl

Test Number

SP-01373_3

Test Date

6/3/2022

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

Summary of Results

Power

Input Watts	152 W
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Lumen Output

Output Lumens	12564
Efficacy	82.66 lm/W

Luminous Dimensions

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

Spacing Criterion

Two luminaires, plane 0°	1.4
Two luminaires, plane 90°	1.15
Four luminaires	1.24

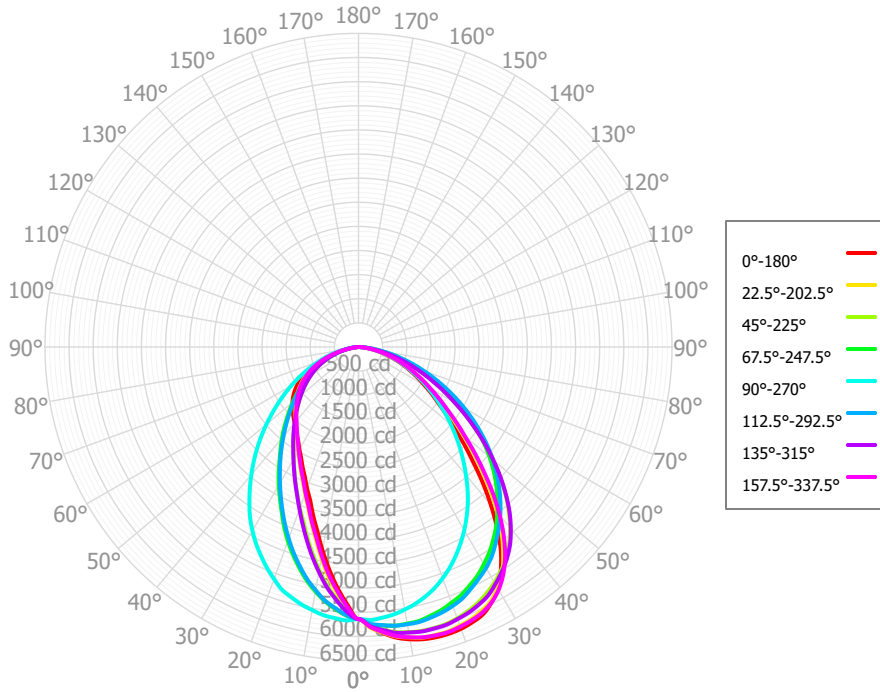
Full Beam Angle

0° - 180°	67°
90° - 270°	87°

IES File Header Contents

Keyword	Value
TEST	SP-01373_3
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	6/3/2022
ISSUEDATE	11/2/2022
LUMCAT	SLO3IND8 25L 35HK LA xx xx MW
LUMINAIRE	SpecLine Linear Pendant, 1.8" aperture x 8' Long, Matte White Refl
OTHER	Extruded Acrylic Lens, Asymmetric Distribution
OTHER	Data for 8' IND fixture, or 8' module for continuous ROW
OTHER	66 Degree x 88 Degree Beam Angle
LAMP	N/A, Min. 90 CRI
LAMPCAT	N/A
OTHER	Reference project SL473
OTHER	25L designation for Spectrum linear product indicates 1570 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°	533.03	4.24%	90.00° - 100.00°	0.00	0.00%
10.00° - 20.00°	1438.41	11.45%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	2086.15	16.60%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	2382.59	18.96%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	2252.96	17.93%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	1832.71	14.59%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	1271.77	10.12%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	640.75	5.10%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	125.68	1.00%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	12564.05	100.00%	0.00° - 180.00°	12564.05	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°	5640.71	5640.71	5640.71	5640.71	5640.71	5640.71	5640.71	5640.71	5640.71	5640.71	5640.71	5640.71	5640.71	5640.71	5640.71	5640.71	5640.71
2.50°	5811.54	5831.64	5792.64	5752.57	5666.55	5568.12	5495.33	5388.72	5342.70	5411.35	5468.53	5577.28	5673.66	5746.30	5801.83	5814.29	5811.54
5.00°	5959.32	5947.35	5887.41	5795.06	5634.36	5438.49	5264.56	5073.18	5011.12	5111.22	5237.33	5455.57	5642.30	5789.53	5891.94	5935.82	5959.32
7.50°	6079.17	6055.06	5964.65	5826.90	5593.39	5304.67	5022.08	4751.07	4652.06	4798.17	4991.62	5317.35	5605.76	5828.68	5977.29	6046.60	6079.17
10.00°	6153.08	6114.39	6004.93	5824.35	5528.06	5118.71	4733.30	4394.47	4288.42	4436.14	4695.29	5146.46	5537.66	5837.04	6010.81	6110.82	6153.08
12.50°	6204.78	6170.41	6031.82	5815.98	5452.20	4927.24	4441.63	4041.85	3923.73	4086.46	4391.36	4957.11	5467.03	5838.07	6042.06	6164.63	6204.78
15.00°	6228.71	6178.49	6037.58	5768.53	5355.10	4701.96	4142.10	3742.24	3623.90	3769.36	4094.63	4740.31	5373.44	5806.37	6044.06	6187.79	6228.71
17.50°	6232.93	6181.97	6023.87	5717.76	5241.70	4472.79	3851.04	3450.68	3333.01	3477.86	3798.39	4515.17	5276.37	5768.76	6041.53	6195.70	6232.93
20.00°	6217.69	6147.31	5986.09	5642.02	5102.82	4228.01	3577.42	3213.70	3118.42	3237.41	3556.45	4280.28	5118.06	5712.63	6003.99	6170.12	6217.69
22.50°	6175.28	6106.29	5929.35	5564.38	4947.75	3981.88	3323.79	2987.91	2909.06	3017.12	3315.80	4030.95	4957.49	5638.66	5961.42	6132.15	6175.28
25.00°	6112.30	6035.02	5854.62	5455.74	4773.40	3732.02	3101.06	2808.41	2743.07	2827.06	3093.47	3768.66	4779.88	5524.66	5896.05	6073.86	6112.30
27.50°	5972.38	5939.44	5755.16	5343.10	4585.36	3488.14	2890.68	2635.28	2579.60	2653.41	2875.52	3529.28	4598.02	5408.86	5813.11	5970.84	5972.38
30.00°	5788.33	5766.72	5637.72	5198.83	4384.80	3256.35	2694.88	2480.22	2449.49	2498.54	2687.76	3305.59	4397.30	5290.05	5676.50	5812.02	5788.33
32.50°	5491.30	5549.75	5496.63	5048.93	4172.82	3032.48	2517.65	2335.60	2323.78	2362.56	2506.21	3078.83	4186.04	5143.16	5529.98	5587.92	5491.30
35.00°	5144.55	5230.64	5342.13	4872.47	3952.62	2820.98	2357.70	2213.23	2226.77	2243.66	2350.64	2850.43	3942.44	4959.53	5360.91	5299.54	5144.55
37.50°	4717.94	4879.01	5129.34	4688.21	3713.90	2616.54	2206.84	2099.40	2134.46	2132.72	2198.49	2652.30	3699.07	4768.83	5161.97	4950.54	4717.94
40.00°	4266.18	4470.77	4892.06	4478.92	3465.10	2420.48	2062.44	1999.17	2061.48	2027.28	2056.47	2466.06	3456.21	4571.04	4912.56	4555.81	4266.18
42.50°	3809.45	4051.88	4607.46	4264.05	3222.12	2236.01	1927.74	1906.51	1990.32	1934.19	1920.04	2283.58	3213.44	4354.76	4634.86	4132.06	3809.45
45.00°	3351.69	3618.92	4308.73	4036.37	2981.47	2062.12	1798.26	1823.00	1924.34	1847.53	1795.61	2102.14	2970.82	4124.25	4320.84	3691.70	3351.69
47.50°	2956.36	3209.40	3976.26	3799.16	2741.07	1899.60	1676.96	1738.94	1856.89	1764.12	1673.75	1938.10	2729.06	3884.13	3992.62	3279.94	2956.36
50.00°	2569.10	2823.60	3636.83	3545.70	2500.74	1745.24	1558.99	1654.33	1786.38	1682.00	1556.02	1777.29	2488.41	3638.22	3650.04	2880.72	2569.10
52.50°	2287.93	2487.25	3296.10	3283.99	2272.67	1597.68	1445.96	1568.91	1709.12	1593.78	1442.02	1622.77	2256.02	3372.24	3305.84	2546.09	2287.93
55.00°	2013.12	2190.39	2955.21	3011.28	2046.96	1453.82	1334.37	1482.91	1621.16	1503.88	1332.70	1468.86	2031.91	3097.27	2960.37	2231.74	2013.12
57.50°	1792.62	1928.92	2628.68	2737.95	1840.23	1316.29	1224.54	1385.95	1521.83	1404.92	1223.81	1333.74	1818.20	2816.39	2627.59	1972.17	1792.62
60.00°	1574.80	1688.95	2303.41	2463.97	1635.51	1181.30	1115.06	1282.91	1408.74	1304.35	1115.34	1199.24	1612.48	2533.60	2302.28	1724.04	1574.80
62.50°	1389.23	1477.98	2011.60	2191.74	1441.80	1050.95	1005.50	1170.86	1281.01	1193.98	1003.24	1069.17	1416.91	2252.09	2004.85	1512.05	1389.23
65.00°	1206.16	1280.14	1723.66	1920.88	1249.09	921.94	895.93	1055.00	1139.72	1082.62	888.46	939.65	1227.26	1970.87	1719.85	1304.70	1206.16
67.50°	1038.08	1095.86	1476.54	1653.75	1075.51	795.37	781.06	924.96	988.81	948.00	771.21	814.97	1050.02	1702.09	1462.62	1122.13	1038.08
70.00°	872.63	916.16	1233.10	1388.92	903.80	669.26	665.94	790.66	830.88	812.53	652.53	691.14	878.32	1434.97	1214.43	941.04	872.63
72.50°	717.12	749.69	1010.08	1146.10	749.76	551.29	548.89	646.52	672.21	671.77	536.39	571.51	723.56	1185.06	989.80	772.60	717.12
75.00°	566.52	586.26	794.37	913.35	597.07	434.16	432.41	500.44	513.12	530.29	421.33	452.68	574.24	936.30	770.32	605.60	566.52
77.50°	429.35	442.30	605.88	696.83	451.76	324.40	321.61	360.30	361.54	382.24	310.23	336.54	435.41	716.33	575.06	455.75	429.35
80.00°	299.84	301.01	425.12	485.66	313.94	215.68	214.14	220.88	213.02	240.41	200.33	227.59	298.83	499.43	383.00	310.97	299.84
82.50°	185.58	189.67	264.47	314.85	202.56	133.70	124.50	121.16	115.39	130.06	117.02	136.08	187.58	321.49	241.35	196.36	185.58
85.00°	95.17	80.61	132.72	153.42	106.50	56.90	49.34	25.34	33.06	40.64	39.34	64.37	79.73	156.90	103.60	95.17	95.17
87.50°	40.51	42.12	56.13	76.51	48.42	28.68	24.41	14.30	13.34	21.01	19.24	28.20	40.85	75.05	52.52	44.55	40.51
90.00°	9.64	6.32	9.44	11.43	9.64	5.04	6.12	4.25	6.01	7.17	6.15	6.96	6.24	8.87	5.41	7.14	9.64

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	14957	14957	14957	14957	14609	14609	14609	14609	13960	13960	13960	13366	13366	13366	12820	12820	12820	12564
	1	13789	13241	12750	12308	13453	12958	12512	12108	12429	12063	11727	11942	11645	11369	11494	11256	11033	11020
	2	12627	11667	10873	10205	12305	11432	10703	10084	10992	10380	9851	10587	10076	9628	10212	9791	9415	9580
	3	11581	10339	9378	8613	11278	10144	9253	8536	9776	9014	8387	9435	8787	8243	9119	8572	8104	8386
	4	10654	9230	8188	7392	10374	9067	8093	7341	8757	7911	7241	8470	7738	7145	8202	7572	7051	7410
	5	9837	8301	7227	6435	9581	8163	7154	6400	7901	7012	6331	7658	6877	6264	7430	6747	6199	6606
	6	9116	7515	6441	5670	8883	7398	6383	5645	7176	6271	5597	6969	6164	5549	6775	6061	5502	5938
	7	8478	6847	5790	5049	8266	6748	5744	5031	6558	5654	4995	6380	5567	4960	6214	5484	4926	5376
	8	7912	6274	5244	4536	7720	6189	5206	4523	6026	5133	4496	5873	5062	4470	5729	4994	4444	4900
	9	7408	5780	4782	4108	7235	5706	4751	4097	5565	4690	4077	5433	4632	4057	5308	4575	4037	4493
	10	6959	5350	4387	3746	6801	5286	4361	3738	5164	4311	3722	5048	4262	3706	4939	4214	3690	4142

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	186.5 fc	7.8 ft
6.5 ft	133.5 fc	9.2 ft
7.5 ft	100.3 fc	10.6 ft
8.0 ft	88.1 fc	11.3 ft
10.0 ft	56.4 fc	14.2 ft
12.0 ft	39.2 fc	17.0 ft
14.0 ft	28.8 fc	19.8 ft
16.0 ft	22.0 fc	22.7 ft
20.0 ft	14.1 fc	28.4 ft
24.0 ft	9.8 fc	34.0 ft
28.0 ft	7.2 fc	39.7 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	50597	50597	50597
45.00°	42517	54658	37821
55.00°	31482	46215	32011
65.00°	25600	36584	26512
75.00°	19634	27531	20693
85.00°	9795	13659	10960

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	24.0	25.6	24.4	25.9	26.2	21.9	23.5	22.3	23.8	24.1
	3H	25.4	26.8	25.8	27.1	27.5	23.7	25.1	24.1	25.4	25.8
	4H	25.8	27.1	26.2	27.5	27.9	24.3	25.6	24.7	26.0	26.4
	6H	26.1	27.3	26.5	27.7	28.1	24.7	25.9	25.1	26.3	26.7
	8H	26.2	27.3	26.6	27.7	28.1	24.8	26.0	25.3	26.4	26.8
	12H	26.2	27.3	26.6	27.7	28.1	24.9	26.0	25.3	26.4	26.8
4H	2H	25.0	26.3	25.4	26.7	27.0	22.3	23.7	22.7	24.0	24.4
	3H	26.5	27.6	26.9	28.0	28.4	24.3	25.4	24.7	25.8	26.2
	4H	27.0	28.0	27.4	28.4	28.8	25.0	26.0	25.4	26.4	26.8
	6H	27.3	28.2	27.8	28.6	29.1	25.5	26.3	25.9	26.8	27.2
	8H	27.4	28.2	27.9	28.6	29.1	25.6	26.4	26.1	26.8	27.3
	12H	27.4	28.2	27.9	28.6	29.1	25.7	26.4	26.1	26.8	27.3
8H	4H	27.4	28.2	27.9	28.6	29.1	25.2	26.0	25.6	26.4	26.9
	6H	27.8	28.5	28.3	28.9	29.4	25.7	26.4	26.2	26.8	27.3
	8H	27.9	28.5	28.4	29.0	29.5	25.8	26.4	26.4	26.9	27.4
	12H	28.0	28.5	28.5	29.0	29.5	25.9	26.5	26.4	27.0	27.5
12H	4H	27.4	28.1	27.9	28.6	29.1	25.2	25.9	25.6	26.4	26.8
	6H	27.9	28.5	28.4	28.9	29.5	25.7	26.3	26.2	26.8	27.3
	8H	28.0	28.5	28.5	29.0	29.6	25.9	26.4	26.4	26.9	27.5

Corrected UGR values based on total output energy
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0