

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

SLO3IND8 11L 35K LA xx xx MW
Specline Linear Pendant, 1.8" aperture x 8' Long, Matte White Refl

Test Number

SP-01435_1

Test Date

6/3/2022

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

Summary of Results

Power

Input Watts	68 W
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Lumen Output

Output Lumens	6868
Efficacy	101 lm/W

Luminous Dimensions

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

Spacing Criterion

Two luminaires, plane 0°	1.24
Two luminaires, plane 90°	1.18
Four luminaires	1.18

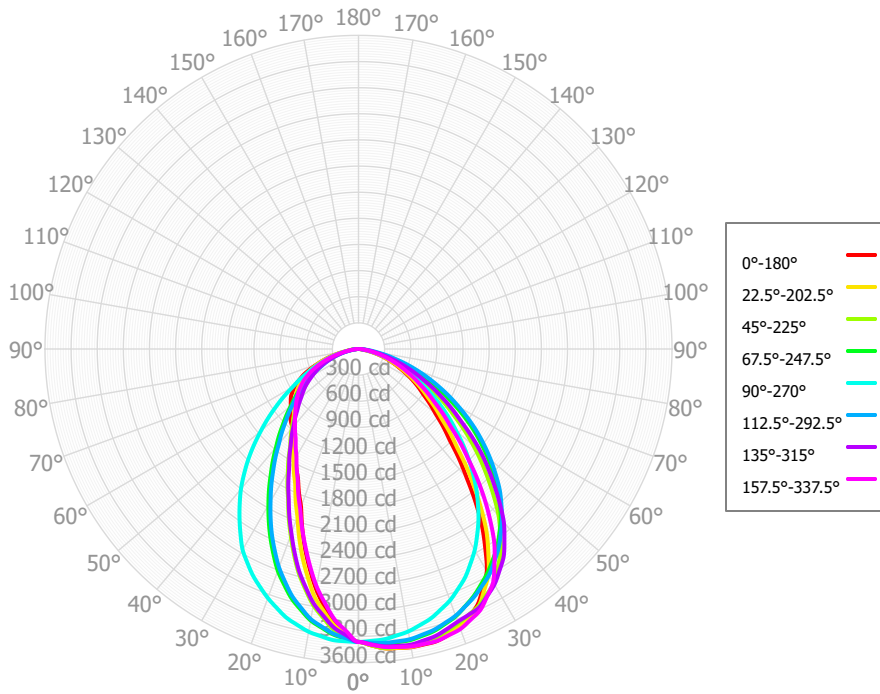
Full Beam Angle

0° - 180°	66°
90° - 270°	92°

IES File Header Contents

Keyword	Value
TEST	SP-01435_1
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	6/3/2022
ISSUEDATE	11/11/2022
LUMCAT	SLO3IND8 11L 35K 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 deg x 96 deg Beam Angle
LAMP	N/A, Min. 80 CRI
LAMPCAT	N/A
OTHER	Reference project SL473
OTHER	11L designation for Spectrum linear product indicates 868 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°	317.96	4.63%	90.00° - 100.00°	0.00	0.00%
10.00° - 20.00°	853.84	12.43%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	1203.81	17.53%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	1320.90	19.23%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	1203.63	17.52%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	957.76	13.94%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	644.92	9.39%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	304.03	4.43%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	61.33	0.89%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	6868.18	100.00%	0.00° - 180.00°	6868.18	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°	3363.97	3363.97	3363.97	3363.97	3363.97	3363.97	3363.97	3363.97	3363.97	3363.97	3363.97	3363.97	3363.97	3363.97	3363.97	3363.97	3363.97
2.50°	3406.76	3406.82	3405.58	3380.32	3355.43	3323.42	3288.72	3242.24	3268.77	3275.30	3300.57	3328.18	3359.52	3375.95	3395.83	3399.19	3406.76
5.00°	3449.55	3449.68	3447.17	3396.66	3346.90	3282.87	3213.47	3120.52	3173.57	3186.63	3237.15	3292.39	3355.07	3387.92	3427.69	3434.40	3449.55
7.50°	3463.20	3462.14	3449.61	3396.09	3320.15	3216.53	3090.37	2944.88	2987.32	3040.06	3112.60	3228.68	3325.80	3386.56	3437.98	3451.39	3463.20
10.00°	3476.85	3474.60	3452.04	3395.51	3293.39	3150.18	2967.28	2769.24	2801.06	2893.49	2988.04	3164.96	3296.52	3385.20	3448.27	3468.38	3476.85
12.50°	3475.06	3465.50	3440.93	3374.06	3248.84	3044.60	2802.34	2560.92	2586.11	2687.12	2823.37	3065.71	3245.64	3362.43	3430.57	3469.81	3475.06
15.00°	3473.27	3456.40	3429.80	3352.61	3204.28	2939.02	2637.41	2352.60	2371.16	2480.75	2658.70	2966.46	3194.75	3339.66	3412.86	3471.22	3473.27
17.50°	3440.30	3424.91	3390.40	3309.43	3138.19	2803.70	2444.79	2154.78	2150.32	2265.52	2467.27	2838.12	3118.99	3299.57	3372.81	3446.44	3440.30
20.00°	3407.31	3393.41	3350.99	3266.25	3072.10	2668.38	2252.17	1956.96	1929.48	2050.29	2275.84	2709.77	3043.22	3259.47	3332.76	3421.67	3407.31
22.50°	3322.73	3328.16	3304.79	3198.35	2983.73	2510.48	2074.41	1804.42	1786.71	1884.19	2093.48	2551.18	2956.11	3200.33	3304.16	3365.09	3322.73
25.00°	3238.15	3262.91	3258.58	3130.45	2895.35	2352.57	1896.64	1651.88	1643.93	1718.08	1911.11	2392.58	2868.99	3141.19	3275.56	3308.51	3238.15
27.50°	3092.63	3124.41	3182.52	3047.84	2781.91	2186.12	1745.65	1538.41	1545.44	1604.40	1766.29	2230.48	2765.46	3069.42	3198.88	3200.55	3092.63
30.00°	2947.10	2985.91	3106.46	2965.23	2668.46	2019.68	1594.67	1424.93	1446.95	1490.71	1621.45	2068.39	2661.94	2997.65	3122.19	3092.58	2947.10
32.50°	2708.39	2774.91	2975.96	2869.97	2535.13	1864.49	1476.83	1341.67	1362.22	1401.26	1494.83	1911.68	2521.68	2899.30	3014.66	2905.88	2708.39
35.00°	2469.66	2563.92	2845.46	2774.69	2401.79	1709.29	1358.99	1258.39	1277.48	1311.80	1368.20	1754.97	2381.42	2800.94	2907.12	2719.16	2469.66
37.50°	2201.89	2315.09	2674.95	2658.70	2253.76	1565.84	1260.81	1196.43	1228.87	1243.16	1279.79	1614.08	2240.70	2682.59	2751.79	2486.15	2201.89
40.00°	1934.11	2066.27	2504.42	2542.69	2105.72	1422.38	1162.62	1134.46	1180.26	1174.52	1191.38	1473.18	2099.97	2564.25	2596.46	2253.14	1934.11
42.50°	1708.68	1834.63	2303.30	2400.84	1947.93	1304.38	1078.73	1079.89	1145.00	1110.44	1108.53	1350.41	1944.00	2429.35	2399.29	2015.57	1708.68
45.00°	1483.25	1602.98	2102.18	2258.97	1790.13	1186.36	994.83	1025.32	1109.74	1046.36	1025.67	1227.62	1788.02	2294.46	2202.12	1777.98	1483.25
47.50°	1319.45	1425.94	1911.06	2097.45	1628.29	1083.78	925.69	977.80	1062.44	998.86	959.79	1119.50	1625.43	2138.72	2013.83	1578.13	1319.45
50.00°	1155.65	1248.90	1719.94	1935.91	1466.45	981.19	856.54	930.27	1015.13	951.35	893.92	1011.38	1462.84	1982.99	1825.53	1378.28	1155.65
52.50°	1032.73	1113.20	1533.67	1771.43	1319.02	890.24	799.22	882.78	980.25	910.59	821.50	920.97	1310.54	1823.48	1626.94	1222.87	1032.73
55.00°	909.81	977.50	1347.40	1606.95	1171.57	799.28	741.90	835.29	945.38	869.84	749.07	830.56	1158.24	1663.96	1428.33	1067.46	909.81
57.50°	815.32	867.38	1185.72	1434.75	1028.47	714.17	676.12	780.64	892.09	818.07	695.00	745.10	1015.34	1497.77	1265.08	943.60	815.32
60.00°	720.84	757.26	1024.04	1262.56	885.36	629.07	610.35	725.97	838.80	766.29	640.93	659.65	872.45	1331.59	1101.84	819.73	720.84
62.50°	623.99	654.44	887.40	1095.85	766.87	549.82	549.07	658.73	764.38	706.22	572.14	584.67	762.58	1172.68	952.91	714.95	623.99
65.00°	527.14	551.63	750.75	929.13	648.37	470.58	487.77	591.49	689.95	646.14	503.33	509.68	652.70	1013.76	803.97	610.17	527.14
67.50°	448.33	462.95	626.06	783.15	546.89	408.83	417.05	514.58	594.64	568.53	445.58	442.84	553.84	864.08	678.35	519.56	448.33
70.00°	369.52	374.27	501.36	637.15	445.40	347.07	346.32	437.68	499.34	490.92	387.82	375.99	454.98	714.40	552.73	428.96	369.52
72.50°	292.50	299.75	394.81	503.10	352.42	282.01	283.90	356.81	412.43	407.64	315.64	310.35	374.98	574.28	441.19	345.64	292.50
75.00°	215.48	225.22	288.25	369.05	259.44	216.93	221.48	275.94	325.50	324.34	243.46	244.71	294.98	434.15	329.65	262.31	215.48
77.50°	146.23	162.02	204.39	260.22	188.60	154.95	167.11	201.26	232.80	243.59	182.63	185.90	205.64	325.07	244.86	192.48	146.23
80.00°	76.98	98.83	120.51	151.39	117.76	92.97	112.74	126.59	140.09	162.84	121.80	127.09	116.31	215.99	160.07	122.64	76.98
82.50°	51.51	64.24	77.39	96.70	81.68	62.06	72.08	82.45	90.17	109.23	79.04	86.78	78.40	145.68	102.51	81.98	51.51
85.00°	26.05	29.65	34.27	42.01	45.60	31.14	31.43	38.30	40.24	55.61	36.28	46.47	40.49	75.37	44.95	41.30	26.05
87.50°	18.81	20.99	22.85	27.95	29.33	23.00	23.06	25.68	24.88	37.02	25.61	31.49	25.85	48.07	29.97	28.48	18.81
90.00°	11.55	12.31	11.41	13.90	13.06	14.85	14.69	13.05	9.52	18.44	14.93	16.50	11.22	20.76	14.99	15.65	11.55

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	8176	8176	8176	8176	7986	7986	7986	7986	7631	7631	7631	7307	7307	7307	7008	7008	7008	6868
	1	7559	7269	7009	6774	7377	7115	6879	6665	6827	6633	6455	6562	6404	6259	6317	6192	6074	6062
	2	6943	6432	6011	5656	6768	6305	5918	5589	6066	5741	5461	5846	5575	5338	5642	5419	5220	5303
	3	6383	5722	5211	4803	6220	5616	5142	4761	5416	5011	4678	5232	4887	4598	5060	4770	4521	4668
	4	5885	5125	4569	4144	5734	5037	4517	4116	4869	4418	4061	4713	4323	4007	4568	4233	3955	4143
	5	5444	4622	4048	3625	5306	4548	4008	3605	4406	3931	3567	4274	3857	3530	4151	3787	3494	3708
	6	5053	4196	3620	3207	4927	4133	3589	3194	4012	3528	3167	3900	3469	3140	3795	3413	3114	3345
	7	4706	3832	3264	2867	4592	3778	3239	2857	3675	3190	2837	3579	3143	2818	3489	3097	2799	3038
	8	4398	3518	2965	2584	4294	3472	2944	2577	3384	2904	2562	3301	2866	2548	3223	2829	2533	2776
	9	4122	3247	2710	2348	4029	3207	2693	2342	3131	2660	2331	3059	2629	2320	2991	2598	2309	2552
	10	3876	3010	2492	2147	3791	2975	2478	2142	2909	2450	2133	2847	2424	2125	2788	2398	2116	2357

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	111.2 fc	7.4 ft
6.5 ft	79.6 fc	8.7 ft
7.5 ft	59.8 fc	10.0 ft
8.0 ft	52.6 fc	10.7 ft
10.0 ft	33.6 fc	13.4 ft
12.0 ft	23.4 fc	16.0 ft
14.0 ft	17.2 fc	18.7 ft
16.0 ft	13.1 fc	21.4 ft
20.0 ft	8.4 fc	26.7 ft
24.0 ft	5.8 fc	32.1 ft
28.0 ft	4.3 fc	37.4 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	30175	30175	30175
45.00°	18816	26667	22708
55.00°	14228	21071	18322
65.00°	11188	15934	13762
75.00°	7468	9990	8991
85.00°	2681	3527	4693

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	20.8	22.3	21.2	22.7	23.0	19.9	21.5	20.3	21.8	22.1
	3H	22.0	23.4	22.4	23.7	24.1	21.6	22.9	21.9	23.2	23.6
	4H	22.4	23.6	22.8	24.0	24.4	22.1	23.4	22.5	23.7	24.1
	6H	22.5	23.7	22.9	24.0	24.4	22.3	23.5	22.7	23.9	24.3
	8H	22.5	23.6	22.9	24.0	24.4	22.4	23.5	22.8	23.9	24.3
	12H	22.5	23.6	22.9	23.9	24.4	22.4	23.5	22.8	23.9	24.3
4H	2H	21.7	23.0	22.1	23.4	23.8	20.4	21.6	20.8	22.0	22.4
	3H	23.1	24.1	23.5	24.5	24.9	22.1	23.2	22.6	23.6	24.0
	4H	23.5	24.4	23.9	24.8	25.3	22.7	23.7	23.2	24.1	24.6
	6H	23.7	24.5	24.1	24.9	25.4	23.1	23.9	23.5	24.4	24.8
	8H	23.7	24.4	24.1	24.9	25.4	23.2	23.9	23.6	24.4	24.8
	12H	23.7	24.4	24.2	24.8	25.3	23.2	23.9	23.7	24.4	24.8
8H	4H	23.8	24.6	24.3	25.0	25.5	22.9	23.7	23.4	24.2	24.6
	6H	24.0	24.7	24.5	25.2	25.6	23.3	24.0	23.8	24.5	24.9
	8H	24.1	24.6	24.6	25.2	25.6	23.5	24.0	24.0	24.5	25.0
	12H	24.1	24.6	24.6	25.1	25.7	23.5	24.0	24.0	24.5	25.1
12H	4H	23.8	24.5	24.3	25.0	25.5	23.0	23.6	23.4	24.1	24.6
	6H	24.1	24.6	24.6	25.1	25.6	23.4	23.9	23.9	24.4	24.9
	8H	24.1	24.6	24.7	25.1	25.7	23.5	24.0	24.0	24.5	25.1

Corrected UGR values based on total output energy
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0