

## **Indoor Distribution Test Report**

# **Spectrum Lighting Inc.**

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## **Spectrum Lighting Photometric Lab**

### **Luminaire**

SLO3IND8 25L 35HK LW xx xx MW

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

### **Test Number**

SP-01374\_3

### **Test Date**

6/3/2022

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

## Summary of Results

### Power

<b>Input Watts</b>	152 W
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### Lumen Output

<b>Output Lumens</b>	12117
<b>Efficacy</b>	79.72 lm/W

### Luminous Dimensions

<b>0° - 180° Size</b>	0.15
<b>90° - 270° Size</b>	8
<b>Height</b>	0

### Spacing Criterion

<b>Two luminaires, plane 0°</b>	1.91
<b>Two luminaires, plane 90°</b>	1.21
<b>Four luminaires</b>	1.69

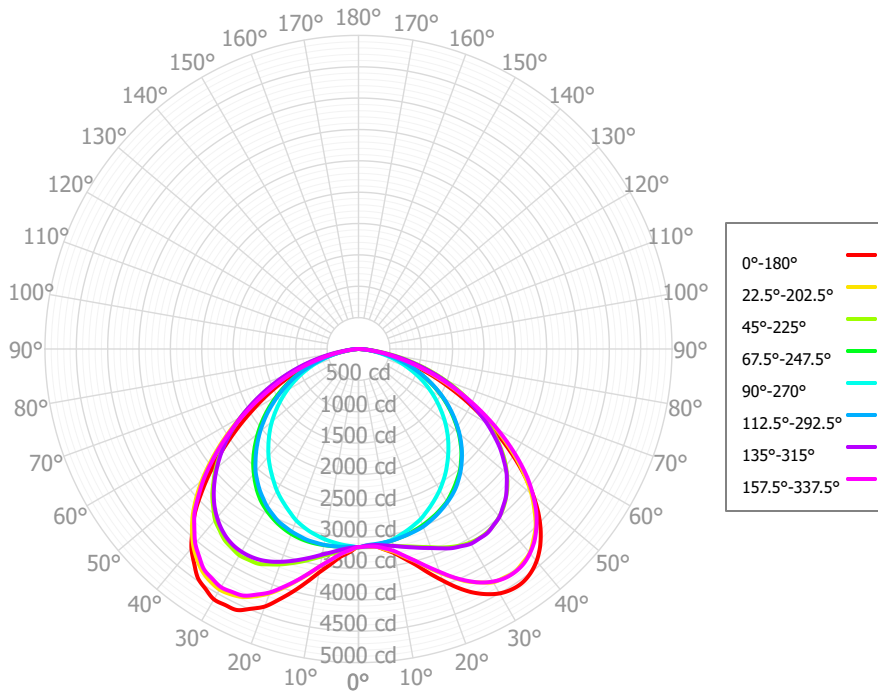
### Full Beam Angle

<b>0° - 180°</b>	118°
<b>90° - 270°</b>	76°

## IES File Header Contents

Keyword	Value
TEST	SP-01374_3
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	6/3/2022
ISSUEDATE	11/2/2022
LUMCAT	SLO3IND8 25L 35HK LW xx xx MW
LUMINAIRE	SpecLine Linear Pendant, 1.8" aperture x 8' Long, Matte White Refl
OTHER	Extruded Acrylic Lens, Batwing Distribution
OTHER	Data for 8' IND fixture, or 8' module for continuous ROW
OTHER	76 Degree x 118 Degree Beam Angle
LAMP	N/A, Min. 90 CRI
LAMPCAT	N/A
OTHER	Reference project SL473
OTHER	25L designation for Spectrum linear product indicates 1515 Source lm/Ft.
OTHER	CCT Output Multipliers: 40HK x 1.0, 30HK x 1.0, 27HK x 1.0
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°	311.96	2.57%	90.00° - 100.00°	0.00	0.00%
10.00° - 20.00°	964.66	7.96%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	1661.70	13.71%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	2207.30	18.22%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	2391.21	19.73%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	2130.99	17.59%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	1527.33	12.61%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	771.98	6.37%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	149.65	1.24%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	12116.77	100.00%	0.00° - 180.00°	12116.77	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°	3159.53	3159.53	3159.53	3159.53	3159.53	3159.53	3159.53	3159.53	3159.53	3159.53	3159.53	3159.53	3159.53	3159.53	3159.53	3159.53	3159.53
2.50°	3158.79	3161.12	3157.23	314718	3150.80	3154.85	317710	3212.79	3243.08	3220.26	3200.76	3160.80	3144.37	3132.60	3138.59	3154.65	3158.79
5.00°	3163.73	3163.08	3152.53	3133.64	3142.29	3166.26	3214.43	3283.97	3328.62	3283.42	3238.54	3165.05	3129.95	3121.92	3137.63	3164.40	3163.73
7.50°	3227.81	3222.56	3165.93	3117.51	3116.13	3169.18	3269.41	3392.68	3468.53	3395.86	3294.60	3171.15	3107.25	3112.44	3159.76	3206.69	3227.81
10.00°	3307.80	3287.61	3186.71	3100.40	3089.28	3171.28	3329.80	3515.10	3619.91	3516.96	3356.38	3175.64	3082.83	3100.95	3188.84	3272.42	3307.80
12.50°	3428.90	3393.29	3221.59	3079.39	3042.71	3162.40	3400.87	3665.96	3806.44	3674.28	3431.09	3177.48	3048.11	3081.08	3230.20	3377.70	3428.90
15.00°	3568.65	3501.15	3261.54	305716	2995.93	3152.93	3472.38	3825.34	3998.54	3832.92	3509.05	3173.11	3011.00	3061.00	3274.52	3496.79	3568.65
17.50°	3748.73	3649.03	3309.72	3025.33	2943.69	3127.88	3544.64	3978.96	4185.08	3995.94	3582.86	3160.04	2962.40	3040.19	3325.47	3635.77	3748.73
20.00°	3931.06	3797.74	3364.11	2990.98	2890.15	3102.32	3611.18	4131.15	4370.94	4147.47	3655.80	3138.02	2908.24	3014.27	3377.72	3782.32	3931.06
22.50°	4117.65	3944.90	3427.37	2952.23	2818.37	3066.61	3669.31	4239.59	4484.55	4266.35	3717.91	3104.94	2833.11	2973.88	3440.57	3938.51	4117.65
25.00°	4281.20	4089.88	3483.71	2912.57	2746.18	3029.61	3710.90	4339.53	4592.77	4363.81	3778.35	3063.25	2758.16	2930.49	3504.96	4077.72	4281.20
27.50°	4407.76	4196.29	3531.54	2864.35	2670.52	2970.09	3731.52	4367.80	4603.46	4410.77	3790.99	3012.39	2683.71	2880.04	3546.44	4198.29	4407.76
30.00°	4500.62	4296.02	3563.61	2814.83	2593.32	2908.83	3733.06	4385.81	4610.92	4430.51	3798.52	2952.94	2604.40	2827.23	3585.67	4283.47	4500.62
32.50°	454715	4322.89	3579.01	2744.91	2506.80	2828.57	3713.79	4342.71	4538.43	4396.27	3761.21	2885.61	2512.41	2769.74	3585.59	4335.21	454715
35.00°	4552.08	4341.49	3571.64	2672.66	2418.44	2746.56	3669.09	4293.19	4462.84	4335.78	3720.71	2800.89	2420.50	2703.49	3583.03	4345.58	4552.08
37.50°	4506.40	4300.08	3542.88	2595.85	2321.27	2651.79	3599.83	4173.63	4306.95	4229.70	3640.67	2702.04	2328.77	2622.00	3540.20	4321.34	4506.40
40.00°	4418.08	4246.49	3491.88	2518.72	2223.26	2552.78	3508.63	4049.78	4145.94	4098.91	3559.04	2596.32	2232.59	2533.93	3495.84	4253.32	4418.08
42.50°	4285.11	4128.29	3422.92	2420.47	2122.16	2431.25	3399.17	3875.08	3919.64	3931.47	3428.94	2485.82	2128.22	2436.11	3411.93	4153.84	4285.11
45.00°	4109.59	3996.52	3330.34	2321.57	2019.22	2308.29	3265.18	3698.72	3687.06	3737.03	3297.67	2361.98	2022.73	2331.99	3326.38	4012.28	4109.59
47.50°	3895.69	3806.42	3221.38	2204.96	1910.69	2179.16	3113.66	3459.93	3399.79	3508.24	313716	2230.19	1915.42	2219.88	3206.58	3844.84	3895.69
50.00°	3640.97	3602.91	3089.98	2087.82	1799.48	2048.06	294775	3219.65	3110.43	3259.27	2974.71	2093.99	1802.78	2100.58	3083.31	3636.12	3640.97
52.50°	3353.64	3353.51	2944.88	1957.58	1681.28	1910.22	2772.77	2949.02	2808.26	2987.56	2788.72	1955.53	1682.76	1973.30	2921.65	3405.78	3353.64
55.00°	3046.91	3094.31	2773.86	1826.96	1562.75	1769.32	2581.59	2677.94	2509.56	2712.35	2599.00	1809.84	1561.80	1842.50	2755.94	3136.80	3046.91
57.50°	2726.88	2807.71	2589.36	1691.59	1443.53	1619.87	2381.72	2402.03	2226.98	2433.74	2379.94	1660.96	1439.70	1708.28	2560.48	2850.15	2726.88
60.00°	2417.37	2520.09	2385.14	1554.95	1322.55	1471.50	2161.49	2126.96	1952.15	2157.52	2158.73	1508.00	1315.24	1567.21	2361.06	2556.45	2417.37
62.50°	2114.03	2230.09	2172.28	1407.79	1198.31	1325.68	1932.04	1858.36	1706.31	1883.30	1924.93	1353.54	1188.31	1420.41	2139.32	2260.04	2114.03
65.00°	1819.29	1938.22	1949.09	1260.06	1070.64	1176.64	1703.86	1594.66	1465.54	1625.15	1691.86	1197.63	1058.98	1271.08	1915.81	1966.35	1819.29
67.50°	1528.88	1642.57	1722.12	1109.00	937.54	1021.10	1476.17	1358.28	1240.36	1378.70	1462.04	1041.28	927.48	1119.93	1684.59	1673.51	1528.88
70.00°	1267.22	1359.06	1483.50	957.78	807.05	866.62	1252.41	1125.57	1021.00	1143.78	1231.73	885.77	794.96	966.48	1450.07	1390.63	1267.22
72.50°	1018.00	1096.39	1241.25	805.89	680.18	713.98	1029.93	908.58	816.42	916.17	999.64	730.48	661.64	811.57	1204.14	1110.38	1018.00
75.00°	793.88	849.11	999.64	654.48	551.86	565.73	813.82	695.82	618.77	704.36	774.57	583.09	528.67	658.15	960.44	866.72	793.88
77.50°	578.80	624.40	758.18	504.80	421.82	424.01	599.37	498.10	435.84	501.10	569.98	437.25	395.93	505.53	723.17	630.63	578.80
80.00°	403.29	422.89	537.70	360.60	303.32	293.32	415.31	314.34	270.77	325.12	375.99	307.47	278.95	365.50	497.42	434.15	403.29
82.50°	239.41	251.46	321.28	232.86	196.67	176.92	237.47	171.03	138.92	161.59	208.54	180.02	171.27	231.20	299.60	243.81	239.41
85.00°	129.70	124.45	176.97	122.71	110.81	89.51	125.12	60.14	48.49	76.35	80.36	99.17	93.25	130.54	140.73	131.86	129.70
87.50°	33.28	46.96	43.69	56.35	43.88	34.41	23.40	27.19	23.66	22.00	34.66	23.31	30.10	43.15	61.06	29.00	33.28
90.00°	12.47	8.50	18.98	10.58	11.44	6.93	10.41	5.02	9.04	7.83	5.50	13.82	9.46	15.55	9.55	14.47	12.47

### Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

<b>RCR</b>	<b>pfc</b>	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	0%
	<b>pcc</b>	80%	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	10%	0%
	<b>pw</b>	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	30%
	<b>0</b>	14425	14425	14425	14425	14089	14089	14089	14089	13463	13463	13463	12890	12890	12890	12364	12364	12364	12117
	<b>1</b>	13191	12617	12102	11639	12861	12342	11873	11449	11826	11440	11087	11353	11038	10747	10916	10663	10427	10437
	<b>2</b>	11969	10964	10133	9435	11649	10734	9969	9321	10302	9658	9102	9904	9366	8893	9535	9090	8694	8890
	<b>3</b>	10880	9586	8584	7787	10577	9393	8464	7715	9029	8232	7577	8693	8013	7443	8381	7806	7314	7631
	<b>4</b>	9929	8450	7368	6541	9647	8288	7276	6494	7981	7100	6403	7696	6932	6313	7430	6772	6227	6621
	<b>5</b>	9100	7511	6401	5581	8841	7373	6329	5549	7113	6192	5486	6871	6061	5425	6645	5935	5364	5805
	<b>6</b>	8376	6727	5621	4826	8140	6611	5564	4804	6389	5455	4759	6182	5351	4715	5989	5250	4672	5138
	<b>7</b>	7743	6069	4984	4223	7529	5969	4938	4206	5780	4851	4174	5603	4766	4142	5436	4684	4110	4588
	<b>8</b>	7186	5511	4457	3733	6993	5426	4420	3720	5263	4349	3696	5110	4279	3672	4967	4212	3648	4129
	<b>9</b>	6695	5035	4017	3330	6520	4961	3987	3320	4821	3927	3301	4688	3870	3283	4563	3815	3264	3742
	<b>10</b>	6261	4625	3645	2994	6102	4561	3620	2986	4439	3571	2971	4324	3523	2957	4215	3476	2943	3413

### Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	104.4 fc	18.3 ft
6.5 ft	74.8 fc	21.6 ft
7.5 ft	56.2 fc	25.0 ft
8.0 ft	49.4 fc	26.6 ft
10.0 ft	31.6 fc	33.3 ft
12.0 ft	21.9 fc	39.9 ft
14.0 ft	16.1 fc	46.6 ft
16.0 ft	12.3 fc	53.2 ft
20.0 ft	7.9 fc	66.5 ft
24.0 ft	5.5 fc	79.8 ft
28.0 ft	4.0 fc	93.1 ft

### Average Luminaire Luminance [cd/m<sup>2</sup>]

	0.00°	45.00°	90.00°
<b>0.00°</b>	28341	28341	28341
<b>45.00°</b>	52132	42247	25615
<b>55.00°</b>	47649	43379	24439
<b>65.00°</b>	38614	41369	22724
<b>75.00°</b>	27513	34645	19126
<b>85.00°</b>	13348	18214	11405

### 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	26.7	28.3	27.0	28.7	29.0	22.8	24.5	23.2	24.8	25.1
	3H	28.1	29.6	28.4	29.9	30.2	24.4	25.9	24.8	26.2	26.6
	4H	28.5	29.9	28.9	30.2	30.6	24.9	26.4	25.3	26.7	27.1
	6H	28.7	30.0	29.1	30.4	30.8	25.3	26.6	25.7	27.0	27.3
	8H	28.8	30.0	29.2	30.4	30.8	25.4	26.6	25.8	27.0	27.4
	12H	28.8	30.0	29.2	30.4	30.8	25.4	26.6	25.8	27.0	27.4
4H	2H	27.2	28.6	27.6	29.0	29.4	24.1	25.5	24.5	25.9	26.3
	3H	28.8	30.0	29.2	30.4	30.8	25.8	27.0	26.2	27.4	27.8
	4H	29.4	30.4	29.8	30.9	31.3	26.4	27.5	26.8	27.9	28.3
	6H	29.7	30.6	30.2	31.1	31.5	26.8	27.7	27.2	28.1	28.6
	8H	29.8	30.6	30.2	31.1	31.5	26.9	27.7	27.3	28.2	28.6
	12H	29.8	30.6	30.3	31.1	31.5	26.9	27.7	27.4	28.2	28.6
8H	4H	29.6	30.5	30.1	30.9	31.4	26.8	27.7	27.3	28.1	28.6
	6H	30.0	30.7	30.5	31.2	31.7	27.3	28.0	27.8	28.5	29.0
	8H	30.1	30.8	30.6	31.3	31.8	27.4	28.1	27.9	28.6	29.0
	12H	30.2	30.8	30.7	31.2	31.8	27.5	28.1	28.0	28.6	29.1
12H	4H	29.6	30.4	30.1	30.9	31.3	26.8	27.6	27.3	28.1	28.6
	6H	30.1	30.7	30.6	31.2	31.7	27.3	28.0	27.9	28.4	29.0
	8H	30.2	30.8	30.7	31.2	31.8	27.5	28.1	28.0	28.6	29.1

Corrected UGR values based on total output energy  
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0