

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

SLO3IND8 20L 35K LW xx xx MW

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

Test Number

SP-01436_2

Test Date

6/3/2022

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

Summary of Results

Power

Input Watts	120 W
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Lumen Output

Output Lumens	11192
Efficacy	93.26 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	1.72

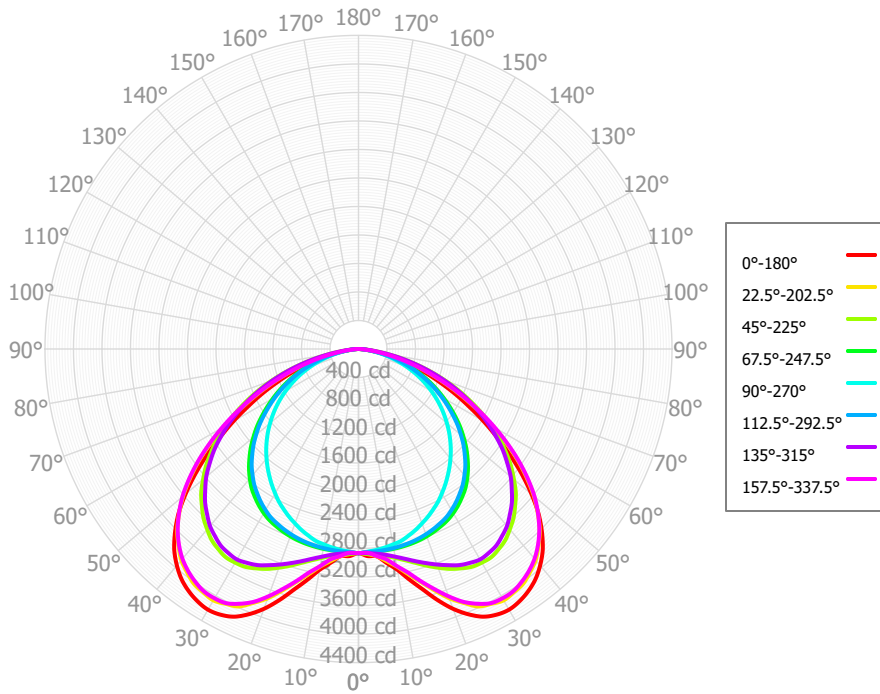
Full Beam Angle

0° - 180°	118°
90° - 270°	74°

IES File Header Contents

Keyword	Value
TEST	SP-01436_2
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	6/3/2022
ISSUE DATE	11/11/2022
LUMCAT	SLO3IND8 20L 35K 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	118 deg x 73 deg Beam Angle
LAMP	N/A, Min. 80 CRI
LAMPCAT	N/A
OTHER	Reference project SL473
OTHER	O5L designation for Spectrum linear product indicates 1399 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°	282.61	2.53%	90.00° - 100.00°	0.00	0.00%
10.00° - 20.00°	884.17	7.90%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	1540.78	13.77%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	2041.61	18.24%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	2216.55	19.81%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	1978.28	17.68%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	1408.32	12.58%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	703.55	6.29%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	135.78	1.21%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	11191.65	100.00%	0.00° - 180.00°	11191.65	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°	2865.30	2865.30	2865.30	2865.30	2865.30	2865.30	2865.30	2865.30	2865.30	2865.30	2865.30	2865.30	2865.30	2865.30	2865.30	2865.30	2865.30
2.50°	2909.33	2881.56	2879.04	2854.02	2847.28	2852.25	2867.58	2861.87	2909.33	2881.56	2879.04	2854.02	2847.28	2852.25	2867.58	2861.87	2909.33
5.00°	2920.88	2920.14	2893.36	2853.38	2831.70	2850.17	2884.06	2916.92	2920.88	2920.14	2893.36	2853.38	2831.70	2850.17	2884.06	2916.92	2920.88
7.50°	3028.94	3001.14	2929.64	2850.87	2811.12	2844.54	2913.23	2976.25	3028.94	3001.14	2929.64	2850.87	2811.12	2844.54	2913.23	2976.25	3028.94
10.00°	3147.41	3100.40	2977.00	2847.16	2785.76	2836.78	2959.75	3092.45	3147.41	3100.40	2977.00	2847.16	2785.76	2836.78	2959.75	3092.45	3147.41
12.50°	3317.45	3237.33	3037.22	2840.97	2759.38	2826.27	3016.15	3214.14	3317.45	3237.33	3037.22	2840.97	2759.38	2826.27	3016.15	3214.14	3317.45
15.00°	3494.78	3385.69	3108.35	2831.68	2712.40	2811.48	3082.83	3372.28	3494.78	3385.69	3108.35	2831.68	2712.40	2811.48	3082.83	3372.28	3494.78
17.50°	3695.68	3552.59	3189.10	2817.49	2662.93	2792.38	3150.50	3531.26	3695.68	3552.59	3189.10	2817.49	2662.93	2792.38	3150.50	3531.26	3695.68
20.00°	3880.92	3723.16	3265.90	2798.06	2605.32	2767.29	3218.98	3693.63	3880.92	3723.16	3265.90	2798.06	2605.32	2767.29	3218.98	3693.63	3880.92
22.50°	4030.31	3856.97	3339.96	2772.37	2547.18	2737.61	3283.98	3840.61	4030.31	3856.97	3339.96	2772.37	2547.18	2737.61	3283.98	3840.61	4030.31
25.00°	4145.43	3986.53	3397.18	2741.96	2482.75	2702.56	3346.84	3945.33	4145.43	3986.53	3397.18	2741.96	2482.75	2702.56	3346.84	3945.33	4145.43
27.50°	4202.74	4032.73	3445.72	2707.28	2417.18	2664.39	3384.65	4021.58	4202.74	4032.73	3445.72	2707.28	2417.18	2664.39	3384.65	4021.58	4202.74
30.00°	4224.80	4073.74	3461.77	2659.35	2340.12	2609.79	3411.09	4040.48	4224.80	4073.74	3461.77	2659.35	2340.12	2609.79	3411.09	4040.48	4224.80
32.50°	4200.76	4052.02	3465.69	2602.01	2262.21	2547.98	3396.95	4034.54	4200.76	4052.02	3465.69	2602.01	2262.21	2547.98	3396.95	4034.54	4200.76
35.00°	4151.43	4025.08	3429.52	2535.20	2179.58	2476.93	3369.18	3990.75	4151.43	4025.08	3429.52	2535.20	2179.58	2476.93	3369.18	3990.75	4151.43
37.50°	4076.97	3951.39	3382.62	2463.37	2095.74	2403.01	3309.57	3928.10	4076.97	3951.39	3382.62	2463.37	2095.74	2403.01	3309.57	3928.10	4076.97
40.00°	3965.99	3868.70	3303.88	2372.53	2007.62	2312.90	3242.80	3843.66	3965.99	3868.70	3303.88	2372.53	2007.62	2312.90	3242.80	3843.66	3965.99
42.50°	3827.39	3739.35	3219.84	2274.35	1917.26	2219.52	3145.62	3729.28	3827.39	3739.35	3219.84	2274.35	1917.26	2219.52	3145.62	3729.28	3827.39
45.00°	3641.89	3597.41	3108.42	2163.70	1821.38	2110.62	3044.46	3588.58	3641.89	3597.41	3108.42	2163.70	1821.38	2110.62	3044.46	3588.58	3641.89
47.50°	3428.89	3413.25	2994.78	2049.74	1722.95	1999.85	2917.73	3417.56	3428.89	3413.25	2994.78	2049.74	1722.95	1999.85	2917.73	3417.56	3428.89
50.00°	3170.18	3214.30	2847.11	1925.00	1619.89	1876.97	2789.32	3225.76	3170.18	3214.30	2847.11	1925.00	1619.89	1876.97	2789.32	3225.76	3170.18
52.50°	2891.75	2980.47	2697.66	1798.38	1514.90	1753.25	2632.18	2997.06	2891.75	2980.47	2697.66	1798.38	1514.90	1753.25	2632.18	2997.06	2891.75
55.00°	2599.29	2733.23	2525.46	1661.51	1407.21	1617.83	2472.93	2749.49	2599.29	2733.23	2525.46	1661.51	1407.21	1617.83	2472.93	2749.49	2599.29
57.50°	2302.56	2462.04	2349.95	1523.74	1296.09	1482.46	2289.98	2485.16	2302.56	2462.04	2349.95	1523.74	1296.09	1482.46	2289.98	2485.16	2302.56
60.00°	2023.75	2189.72	2150.83	1385.24	1181.32	1347.59	2104.44	2214.61	2023.75	2189.72	2150.83	1385.24	1181.32	1347.59	2104.44	2214.61	2023.75
62.50°	1748.68	1915.90	1949.21	1246.71	1065.35	1212.25	1904.26	1942.74	1748.68	1915.90	1949.21	1246.71	1065.35	1212.25	1904.26	1942.74	1748.68
65.00°	1500.56	1650.21	1736.46	1107.63	948.41	1074.44	1701.70	1670.53	1500.56	1650.21	1736.46	1107.63	948.41	1074.44	1701.70	1670.53	1500.56
67.50°	1255.58	1392.82	1520.72	968.16	828.81	937.29	1490.18	1412.82	1255.58	1392.82	1520.72	968.16	828.81	937.29	1490.18	1412.82	1255.58
70.00°	1036.00	1150.88	1296.09	825.76	707.53	802.40	1276.15	1157.49	1036.00	1150.88	1296.09	825.76	707.53	802.40	1276.15	1157.49	1036.00
72.50°	818.17	921.30	1071.55	684.83	588.38	667.53	1055.64	932.68	818.17	921.30	1071.55	684.83	588.38	667.53	1055.64	932.68	818.17
75.00°	632.04	707.71	847.23	550.46	470.22	532.70	837.95	710.27	632.04	707.71	847.23	550.46	470.22	532.70	837.95	710.27	632.04
77.50°	449.25	503.77	631.26	417.20	359.14	402.27	625.59	519.54	449.25	503.77	631.26	417.20	359.14	402.27	625.59	519.54	449.25
80.00°	299.10	338.36	428.89	287.36	250.43	279.83	428.42	332.30	299.10	338.36	428.89	287.36	250.43	279.83	428.42	332.30	299.10
82.50°	160.52	190.09	257.71	172.20	160.64	172.76	253.28	197.34	160.52	190.09	257.71	172.20	160.64	172.76	253.28	197.34	160.52
85.00°	82.11	99.56	124.86	89.29	75.26	86.68	127.83	74.65	82.11	99.56	124.86	89.29	75.26	86.68	127.83	74.65	82.11
87.50°	19.68	27.94	46.53	32.02	39.00	34.00	57.01	38.58	19.68	27.94	46.53	32.02	39.00	34.00	57.01	38.58	19.68
90.00°	13.22	11.50	19.18	16.45	9.51	15.93	19.83	8.92	13.22	11.50	19.18	16.45	9.51	15.93	19.83	8.92	13.22

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	13323	13323	13323	13323	13014	13014	13014	13014	12435	12435	12435	11906	11906	11906	11420	11420	11420	11192
	1	12186	11656	11182	10755	11881	11402	10970	10579	10926	10570	10244	10489	10199	9930	10086	9853	9635	9643
	2	11058	10130	9363	8719	10762	9918	9212	8614	9519	8925	8412	9151	8655	8219	8811	8400	8035	8215
	3	10051	8856	7932	7195	9771	8678	7821	7130	8342	7607	7001	8032	7405	6878	7743	7213	6758	7051
	4	9172	7807	6807	6043	8911	7656	6722	6000	7373	6559	5915	7109	6404	5833	6864	6256	5753	6117
	5	8405	6937	5912	5155	8166	6810	5846	5125	6570	5719	5067	6346	5598	5010	6137	5481	4955	5361
	6	7736	6213	5190	4456	7518	6105	5138	4435	5900	5037	4394	5709	4941	4354	5530	4848	4314	4745
	7	7150	5603	4600	3898	6952	5511	4559	3882	5336	4478	3852	5173	4400	3823	5019	4324	3793	4235
	8	6635	5087	4113	3444	6456	5008	4079	3433	4858	4013	3410	4717	3949	3388	4584	3887	3366	3810
	9	6181	4646	3706	3071	6019	4578	3678	3062	4449	3623	3045	4326	3570	3028	4211	3519	3011	3452
	10	5779	4267	3362	2760	5632	4208	3339	2753	4095	3293	2739	3989	3249	2726	3888	3206	2713	3147

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	94.7 fc	18.5 ft
6.5 ft	67.8 fc	21.8 ft
7.5 ft	50.9 fc	25.2 ft
8.0 ft	44.8 fc	26.8 ft
10.0 ft	28.7 fc	33.6 ft
12.0 ft	19.9 fc	40.3 ft
14.0 ft	14.6 fc	47.0 ft
16.0 ft	11.2 fc	53.7 ft
20.0 ft	7.2 fc	67.1 ft
24.0 ft	5.0 fc	80.5 ft
28.0 ft	3.7 fc	94.0 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	25701	25701	25701
45.00°	46199	39431	23105
55.00°	40649	39495	22007
65.00°	31849	36856	20130
75.00°	21905	29362	16296
85.00°	8450	12850	7746

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	26.0	27.6	26.3	28.0	28.3	22.4	24.1	22.8	24.4	24.7
	3H	27.3	28.8	27.6	29.1	29.4	24.0	25.5	24.4	25.8	26.2
	4H	27.6	29.0	28.0	29.4	29.8	24.6	26.0	25.0	26.3	26.7
	6H	27.8	29.1	28.2	29.5	29.9	24.9	26.2	25.3	26.6	26.9
	8H	27.8	29.1	28.3	29.5	29.9	25.0	26.2	25.4	26.6	27.0
	12H	27.8	29.0	28.3	29.4	29.8	25.0	26.2	25.4	26.6	27.0
4H	2H	26.6	28.0	26.9	28.3	28.7	24.0	25.5	24.4	25.8	26.2
	3H	28.1	29.2	28.5	29.6	30.0	25.7	26.9	26.1	27.3	27.7
	4H	28.5	29.6	29.0	30.0	30.5	26.2	27.3	26.7	27.7	28.2
	6H	28.8	29.7	29.3	30.2	30.6	26.6	27.5	27.1	28.0	28.4
	8H	28.9	29.7	29.3	30.2	30.6	26.7	27.5	27.1	28.0	28.5
	12H	28.9	29.7	29.4	30.1	30.6	26.7	27.5	27.2	28.0	28.4
8H	4H	28.8	29.7	29.2	30.1	30.6	26.8	27.6	27.2	28.1	28.6
	6H	29.1	29.9	29.6	30.3	30.8	27.2	28.0	27.7	28.4	28.9
	8H	29.2	29.8	29.7	30.4	30.8	27.3	28.0	27.9	28.5	29.0
	12H	29.2	29.8	29.7	30.3	30.9	27.4	28.0	27.9	28.5	29.0
12H	4H	28.8	29.6	29.3	30.0	30.5	26.8	27.6	27.3	28.1	28.5
	6H	29.2	29.8	29.7	30.3	30.8	27.3	28.0	27.8	28.4	29.0
	8H	29.3	29.8	29.8	30.3	30.9	27.5	28.0	28.0	28.5	29.1

Corrected UGR values based on total output energy
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0