

Indoor Distribution Test Report

Spectrum Lighting Inc.

994 Jefferson Street
Fall River, MA 02721
+1.508.678.2303

Spectrum Lighting Photometric Lab

Luminaire

SLO3IND8 25L 35K LW xx xx MW

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

Test Number

SP-01436_3

Test Date

6/3/2022

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

Summary of Results

Power

Input Watts	148 W
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Lumen Output

Output Lumens	13596
Efficacy	91.87 lm/W

Luminous Dimensions

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

Spacing Criterion

Two luminaires, plane 0°	1.9
Two luminaires, plane 90°	1.21
Four luminaires	1.72

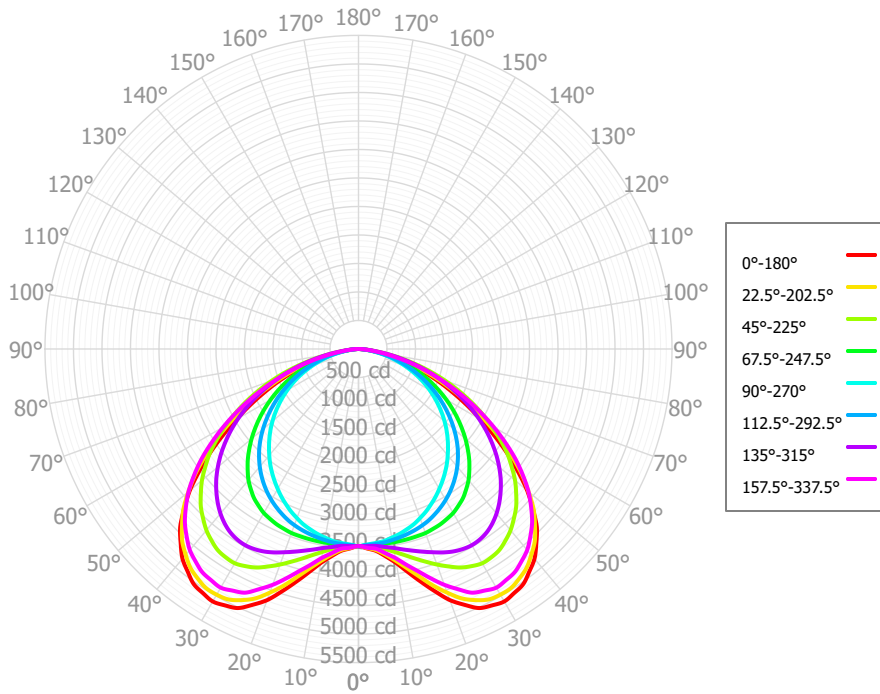
Full Beam Angle

0° - 180°	119°
90° - 270°	74°

IES File Header Contents

Keyword	Value
TEST	SP-01436_3
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	6/3/2022
ISSUEDATE	11/11/2022
LUMCAT	SL03IND8 25L 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	25L designation for Spectrum linear product indicates 1700 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°	341.46	2.51%	90.00° - 100.00°	0.00	0.00%
10.00° - 20.00°	1067.52	7.85%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	1861.88	13.69%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	2471.78	18.18%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	2684.84	19.75%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	2403.31	17.68%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	1720.74	12.66%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	870.75	6.40%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	173.89	1.28%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	13596.17	100.00%	0.00° - 180.00°	13596.17	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°	3459.27	3459.27	3459.27	3459.27	3459.27	3459.27	3459.27	3459.27	3459.27	3459.27	3459.27	3459.27	3459.27	3459.27	3459.27	3459.27	3459.27
2.50°	3503.72	3495.28	3463.14	3445.61	3434.22	3441.81	3461.26	3490.54	3503.72	3495.28	3463.14	3445.61	3434.22	3441.81	3461.26	3490.54	3503.72
5.00°	3556.50	3541.14	3492.03	3441.34	3416.96	3434.11	3467.05	3518.38	3556.50	3541.14	3492.03	3441.34	3416.96	3434.11	3467.05	3518.38	3556.50
7.50°	3670.08	3639.81	3540.43	3444.09	3398.62	3423.77	3503.14	3613.09	3670.08	3639.81	3540.43	3444.09	3398.62	3423.77	3503.14	3613.09	3670.08
10.00°	3812.09	3773.23	3612.97	3448.02	3361.48	3403.42	3543.91	3722.78	3812.09	3773.23	3612.97	3448.02	3361.48	3403.42	3543.91	3722.78	3812.09
12.50°	4009.22	3939.99	3700.66	3446.89	3323.64	3381.46	3601.98	3876.14	4009.22	3939.99	3700.66	3446.89	3323.64	3381.46	3601.98	3876.14	4009.22
15.00°	4227.06	4134.40	3803.51	3445.22	3274.79	3354.93	3662.03	4036.04	4227.06	4134.40	3803.51	3445.22	3274.79	3354.93	3662.03	4036.04	4227.06
17.50°	4456.13	4350.29	3911.58	3440.87	3224.27	3325.13	3727.81	4218.61	4456.13	4350.29	3911.58	3440.87	3224.27	3325.13	3727.81	4218.61	4456.13
20.00°	4688.38	4548.94	4023.87	3436.26	3157.22	3288.16	3794.37	4403.08	4688.38	4548.94	4023.87	3436.26	3157.22	3288.16	3794.37	4403.08	4688.38
22.50°	4857.84	4736.84	4129.15	3415.68	3088.32	3244.26	3862.69	4561.57	4857.84	4736.84	4129.15	3415.68	3088.32	3244.26	3862.69	4561.57	4857.84
25.00°	5014.66	4860.82	4229.72	3394.25	3007.83	3187.98	3919.83	4717.22	5014.66	4860.82	4229.72	3394.25	3007.83	3187.98	3919.83	4717.22	5014.66
27.50°	5071.17	4952.05	4294.77	3359.75	2925.35	3126.44	3957.44	4779.24	5071.17	4952.05	4294.77	3359.75	2925.35	3126.44	3957.44	4779.24	5071.17
30.00°	5114.20	4976.60	4340.76	3322.38	2834.40	3057.39	3974.58	4834.92	5114.20	4976.60	4340.76	3322.38	2834.40	3057.39	3974.58	4834.92	5114.20
32.50°	5078.62	4974.44	4334.41	3260.88	2742.08	2980.09	3962.20	4810.40	5078.62	4974.44	4334.41	3260.88	2742.08	2980.09	3962.20	4810.40	5078.62
35.00°	5037.18	4916.51	4306.01	3194.52	2645.49	2893.27	3924.50	4778.99	5037.18	4916.51	4306.01	3194.52	2645.49	2893.27	3924.50	4778.99	5037.18
37.50°	4922.41	4841.61	4235.30	3102.50	2545.08	2798.06	3857.36	4696.54	4922.41	4841.61	4235.30	3102.50	2545.08	2798.06	3857.36	4696.54	4922.41
40.00°	4803.88	4715.30	4150.42	3003.34	2435.24	2694.80	3767.43	4603.92	4803.88	4715.30	4150.42	3003.34	2435.24	2694.80	3767.43	4603.92	4803.88
42.50°	4618.02	4577.67	4034.77	2877.62	2324.01	2581.78	3656.03	4462.20	4618.02	4577.67	4034.77	2877.62	2324.01	2581.78	3656.03	4462.20	4618.02
45.00°	4424.76	4378.12	3911.53	2746.36	2210.12	2461.16	3527.06	4307.47	4424.76	4378.12	3911.53	2746.36	2210.12	2461.16	3527.06	4307.47	4424.76
47.50°	4148.42	4168.92	3751.51	2599.15	2092.66	2328.38	3384.33	4107.73	4148.42	4168.92	3751.51	2599.15	2092.66	2328.38	3384.33	4107.73	4148.42
50.00°	3863.45	3893.63	3585.24	2447.50	1969.71	2188.01	3221.28	3892.28	3863.45	3893.63	3585.24	2447.50	1969.71	2188.01	3221.28	3892.28	3863.45
52.50°	3522.90	3612.43	3385.87	2286.01	1842.55	2040.86	3045.42	3634.30	3522.90	3612.43	3385.87	2286.01	1842.55	2040.86	3045.42	3634.30	3522.90
55.00°	3179.38	3289.43	3183.12	2121.69	1710.00	1890.24	2852.60	3360.52	3179.38	3289.43	3183.12	2121.69	1710.00	1890.24	2852.60	3360.52	3179.38
57.50°	2823.03	2964.92	2942.34	1952.42	1576.34	1735.64	2651.27	3053.56	2823.03	2964.92	2942.34	1952.42	1576.34	1735.64	2651.27	3053.56	2823.03
60.00°	2475.27	2625.70	2699.55	1780.49	1441.52	1579.44	2434.47	2741.44	2475.27	2625.70	2699.55	1780.49	1441.52	1579.44	2434.47	2741.44	2475.27
62.50°	2155.88	2288.36	2433.44	1604.71	1302.42	1420.53	2211.62	2420.73	2155.88	2288.36	2433.44	1604.71	1302.42	1420.53	2211.62	2420.73	2155.88
65.00°	1846.64	1976.64	2166.68	142716	1159.72	1260.80	1974.61	2104.09	1846.64	1976.64	2166.68	142716	1159.72	1260.80	1974.61	2104.09	1846.64
67.50°	1562.79	1668.39	1889.42	1247.52	1014.02	1100.09	1733.23	1793.05	1562.79	1668.39	1889.42	1247.52	1014.02	1100.09	1733.23	1793.05	1562.79
70.00°	1288.54	1385.21	1611.67	1068.06	866.26	939.16	1485.84	1492.66	1288.54	1385.21	1611.67	1068.06	866.26	939.16	1485.84	1492.66	1288.54
72.50°	1033.09	1107.81	1329.74	888.75	723.12	784.46	1237.11	1204.12	1033.09	1107.81	1329.74	888.75	723.12	784.46	1237.11	1204.12	1033.09
75.00°	792.45	859.19	1049.95	712.72	582.56	630.73	991.34	933.55	792.45	859.19	1049.95	712.72	582.56	630.73	991.34	933.55	792.45
77.50°	575.61	620.70	781.72	539.28	443.34	483.62	746.02	679.17	575.61	620.70	781.72	539.28	443.34	483.62	746.02	679.17	575.61
80.00°	382.74	418.17	526.20	381.09	304.72	337.12	524.19	458.56	382.74	418.17	526.20	381.09	304.72	337.12	524.19	458.56	382.74
82.50°	220.84	240.58	318.74	232.56	193.48	214.50	304.53	263.22	220.84	240.58	318.74	232.56	193.48	214.50	304.53	263.22	220.84
85.00°	108.06	129.61	146.25	127.26	91.45	93.87	167.70	136.23	108.06	129.61	146.25	127.26	91.45	93.87	167.70	136.23	108.06
87.50°	46.62	46.62	76.00	43.76	44.73	51.50	36.10	50.30	46.62	46.62	76.00	43.76	44.73	51.50	36.10	50.30	46.62
90.00°	14.75	23.67	24.06	14.66	12.36	11.82	21.73	17.06	14.75	23.67	24.06	14.66	12.36	11.82	21.73	17.06	14.75

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	16186	16186	16186	16186	15810	15810	15810	15810	15107	15107	15107	14464	14464	14464	13874	13874	13874	13596
	1	14796	14150	13571	13049	14426	13841	13314	12836	13263	12828	12430	12731	12377	12049	12241	11956	11691	11702
	2	13422	12291	11356	10571	13062	12033	11173	10444	11548	10824	10198	11101	10496	9964	10688	10187	9741	9962
	3	12199	10743	9616	8719	11858	10526	9481	8639	10117	9221	8483	9740	8975	8333	9389	8742	8189	8547
	4	11130	9467	8249	7320	10813	9284	8147	7267	8939	7949	7164	8619	7760	7065	8321	7580	6967	7411
	5	10198	8411	7163	6241	9907	8257	7083	6206	7965	6929	6135	7693	6781	6066	7439	6640	5999	6495
	6	9385	7532	6287	5394	9120	7401	6224	5369	7152	6102	5319	6920	5984	5270	6702	5871	5222	5746
	7	8674	6792	5572	4717	8434	6681	5522	4699	6468	5423	4662	6269	5328	4626	6082	5237	4591	5129
	8	8049	6166	4982	4168	7832	6070	4940	4154	5888	4860	4126	5716	4782	4099	5555	4707	4073	4614
	9	7498	5632	4488	3715	7302	5549	4454	3705	5391	4387	3684	5243	4323	3663	5102	4261	3642	4180
	10	7010	5172	4071	3339	6832	5100	4043	3330	4963	3987	3314	4834	3934	3298	4711	3881	3282	3810

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	114.4 fc	18.6 ft
6.5 ft	81.9 fc	22.0 ft
7.5 ft	61.5 fc	25.4 ft
8.0 ft	54.1 fc	27.1 ft
10.0 ft	34.6 fc	33.8 ft
12.0 ft	24.0 fc	40.6 ft
14.0 ft	17.6 fc	47.4 ft
16.0 ft	13.5 fc	54.1 ft
20.0 ft	8.6 fc	67.7 ft
24.0 ft	6.0 fc	81.2 ft
28.0 ft	4.4 fc	94.7 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	31029	31029	31029
45.00°	56130	49619	28036
55.00°	49721	49779	26742
65.00°	39194	45987	24615
75.00°	27464	36388	20190
85.00°	11122	15052	9412

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	28.6	29.0	23.2	24.8	23.5	25.2	25.5
	3H	28.0	29.5	28.4	29.8	30.2	24.8	26.3	25.1	26.6	27.0
	4H	28.4	29.8	28.8	30.1	30.5	25.3	26.7	25.7	27.1	27.4
	6H	28.6	29.9	29.0	30.3	30.7	25.6	27.0	26.1	27.3	27.7
	8H	28.6	29.9	29.1	30.3	30.7	25.7	27.0	26.1	27.4	27.8
	12H	28.6	29.8	29.1	30.2	30.6	25.7	26.9	26.2	27.3	27.8
4H	2H	27.2	28.6	27.6	29.0	29.4	24.7	26.2	25.1	26.5	26.9
	3H	28.8	30.0	29.2	30.4	30.8	26.4	27.6	26.8	28.0	28.4
	4H	29.3	30.4	29.7	30.8	31.2	27.0	28.0	27.4	28.4	28.9
	6H	29.6	30.5	30.1	31.0	31.4	27.3	28.3	27.8	28.7	29.2
	8H	29.7	30.5	30.1	31.0	31.4	27.4	28.3	27.9	28.7	29.2
	12H	29.7	30.5	30.2	30.9	31.4	27.5	28.2	27.9	28.7	29.2
8H	4H	29.5	30.4	30.0	30.8	31.3	27.5	28.4	28.0	28.8	29.3
	6H	29.9	30.6	30.4	31.1	31.6	28.0	28.7	28.5	29.2	29.7
	8H	30.0	30.6	30.5	31.2	31.6	28.1	28.7	28.6	29.2	29.7
	12H	30.0	30.6	30.6	31.1	31.7	28.2	28.7	28.7	29.2	29.8
12H	4H	29.5	30.3	30.0	30.8	31.3	27.5	28.3	28.0	28.8	29.3
	6H	29.9	30.6	30.5	31.1	31.6	28.1	28.7	28.6	29.2	29.7
	8H	30.1	30.6	30.6	31.1	31.7	28.2	28.8	28.7	29.3	29.8

Corrected UGR values based on total output energy
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0