

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

SLO3IND8 25L 35HK DW xx xx MW

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

Test Number

SP-01372_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	10380
Efficacy	68.29 lm/W

Luminous Dimensions

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

Spacing Criterion

Two luminaires, plane 0°	1.25
Two luminaires, plane 90°	1.3
Four luminaires	1.37

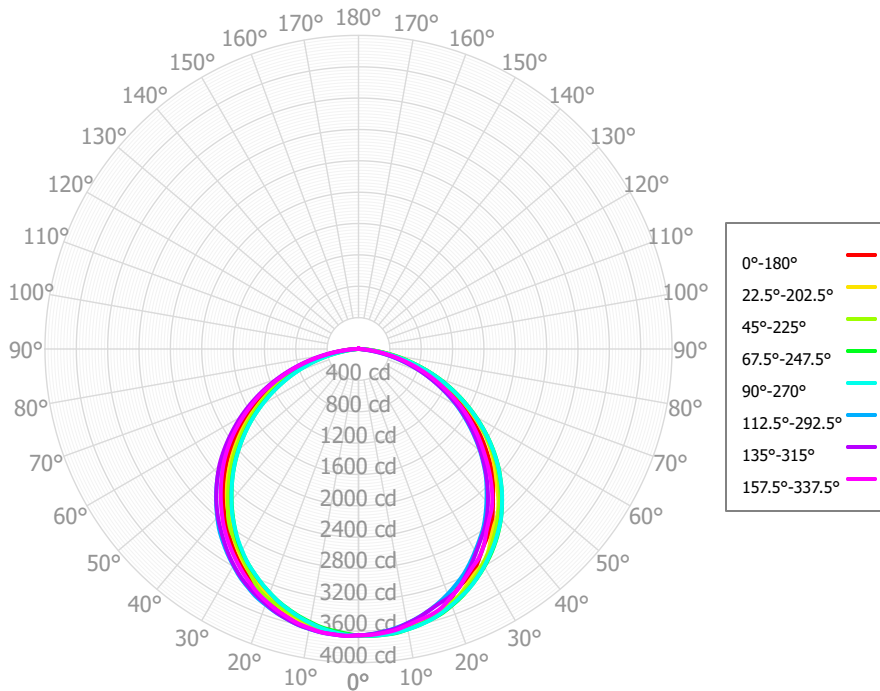
Full Beam Angle

0° - 180°	112°
90° - 270°	111°

IES File Header Contents

Keyword	Value
TEST	SP-01372_3
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	6/3/2022
ISSUEDATE	11/2/2022
LUMCAT	SL03IND8 25L 35HK DW xx xx MW
LUMINAIRE	SpecLine Linear Pendant, 1.8" aperture x 8' Long, Matte White Refl
OTHER	Extruded Acrylic Lens, Diffuse Distribution
OTHER	Data for 8' IND fixture, or 8' module for continuous ROW
OTHER	111 Degree Beam Angle
LAMP	N/A, Min. 90 CRI
LAMPCAT	N/A
OTHER	Reference project SL473
OTHER	25L designation for Spectrum linear product indicates 1297 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°	351.12	3.38%	90.00° - 100.00°	6.51	0.06%
10.00° - 20.00°	991.50	9.55%	100.00° - 110.00°	5.62	0.05%
20.00° - 30.00°	1501.84	14.47%	100.00° - 120.00°	11.12	0.11%
30.00° - 40.00°	1809.27	17.43%	120.00° - 130.00°	5.15	0.05%
40.00° - 50.00°	1874.33	18.06%	130.00° - 140.00°	4.66	0.04%
50.00° - 60.00°	1686.17	16.24%	140.00° - 150.00°	4.10	0.04%
60.00° - 70.00°	1270.05	12.23%	150.00° - 160.00°	2.92	0.03%
70.00° - 80.00°	701.64	6.76%	160.00° - 170.00°	1.86	0.02%
80.00° - 90.00°	157.61	1.52%	170.00° - 180.00°	0.63	0.01%
0.00° - 90.00°	10343.54	99.64%	0.00° - 180.00°	10380.49	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°	3653.37	3653.37	3653.37	3653.37	3653.37	3653.37	3653.37	3653.37	3653.37	3653.37	3653.37	3653.37	3653.37	3653.37	3653.37	3653.37	3653.37
2.50°	3645.88	3652.63	3657.33	3664.18	3662.03	3661.66	3663.38	3663.65	3651.93	3648.94	3644.29	3633.31	3647.89	3641.53	3643.49	3651.70	3645.88
5.00°	3630.58	3639.65	3653.97	3660.75	3660.80	3656.93	3655.45	3654.30	3641.22	3630.86	3624.79	3609.19	3624.31	3619.99	3622.55	3636.88	3630.58
7.50°	3611.18	3624.80	3649.26	3655.43	3651.25	3647.21	3646.27	3643.73	3621.69	3611.58	3602.46	3582.99	3592.95	3591.88	3599.41	3617.58	3611.18
10.00°	3583.02	3597.82	3626.25	3631.24	3632.66	3626.10	3624.76	3614.46	3590.78	3575.61	3560.58	3538.95	3549.15	3554.53	3557.32	3580.87	3583.02
12.50°	3552.06	3572.49	3599.81	3605.79	3606.94	3601.77	3600.37	3583.98	3556.93	3537.74	3517.97	3493.14	3500.42	3509.69	3513.09	3546.56	3552.06
15.00°	3529.86	3553.65	3551.57	3573.65	3575.31	3563.32	3560.71	3536.80	3520.18	3487.05	3472.36	3438.77	3442.72	3456.83	3458.56	3518.73	3529.86
17.50°	3509.51	3522.98	3502.50	3536.79	3530.11	3522.31	3517.40	3488.25	3467.67	3432.90	3427.79	3380.65	3382.54	3395.46	3408.22	3474.14	3509.51
20.00°	3412.68	3458.83	3449.98	3483.45	3476.10	3471.79	3461.08	3429.47	3403.00	3363.97	3386.28	3310.04	3309.04	3326.95	3371.81	3395.84	3412.68
22.50°	3306.03	3387.13	3393.60	3425.94	3418.66	3420.29	3402.69	3366.95	3331.85	3291.16	3322.87	3236.19	3233.06	3251.46	3315.59	3313.03	3306.03
25.00°	3248.48	3300.01	3326.42	3358.04	3359.55	3350.33	3339.16	3288.12	3256.93	3207.13	3213.30	3154.78	3151.38	3171.54	3212.93	3223.44	3248.48
27.50°	3192.17	3224.28	3254.21	3286.68	3284.71	3279.22	3268.23	3206.81	3173.39	3120.18	3107.20	3069.92	3069.15	3077.49	3107.73	3143.36	3192.17
30.00°	3082.16	3165.93	3171.86	3209.01	3204.39	3192.75	3183.77	3118.25	3086.14	3027.15	3006.52	2979.09	2969.93	2976.76	2998.12	3074.16	3082.16
32.50°	2974.14	3075.22	3083.62	3125.38	3116.46	3105.61	3092.81	3027.31	2987.97	2929.05	2915.48	2877.29	2869.92	2877.15	2894.85	2973.47	2974.14
35.00°	2888.50	2946.00	2986.23	3033.54	3026.65	3012.67	2992.66	2931.20	2886.35	2822.86	2836.26	2760.76	2759.63	2777.94	2800.11	2844.54	2888.50
37.50°	2796.27	2841.20	2883.58	2934.08	2927.85	2916.32	2892.30	2828.61	2779.32	2714.72	2727.28	2641.36	2647.65	2661.11	2691.48	2737.79	2796.27
40.00°	2666.31	2758.59	2774.75	2826.44	2827.71	2803.37	2791.72	2715.50	2671.16	2604.25	2590.50	2519.02	2521.44	2540.05	2568.66	2646.16	2666.31
42.50°	2540.12	2642.60	2662.13	2709.54	2708.71	2688.58	2681.96	2600.12	2552.93	2486.70	2457.91	2394.54	2394.89	2418.74	2440.88	2525.62	2540.12
45.00°	2427.61	2503.55	2546.12	2585.05	2588.44	2567.91	2564.67	2481.95	2433.50	2362.63	2328.30	2268.38	2266.74	2297.39	2309.23	2390.30	2427.61
47.50°	2307.69	2376.06	2422.85	2456.94	2456.48	2441.86	2442.97	2362.04	2307.40	2232.46	2195.89	2135.65	2136.05	2161.34	2173.21	2247.78	2307.69
50.00°	2168.41	2254.75	2294.46	2326.59	2323.72	2303.32	2318.43	2240.47	2180.63	2097.87	2061.93	1998.91	1997.07	2024.25	2034.54	2102.49	2168.41
52.50°	2028.39	2128.20	2152.58	2184.88	2179.84	2161.77	2179.21	2109.67	2038.60	1959.17	1922.33	1860.26	1857.45	1880.62	1894.77	1963.67	2028.39
55.00°	1886.96	1999.60	2003.56	2037.74	2034.34	2015.01	2032.98	1972.09	1896.66	1818.24	1780.46	1720.75	1716.33	1737.07	1754.50	1826.58	1886.96
57.50°	1742.68	1847.00	1855.56	1883.82	1878.26	1866.54	1884.39	1828.26	1755.74	1669.63	1636.17	1575.26	1571.68	1594.59	1612.67	1683.80	1742.68
60.00°	1594.32	1687.89	1707.95	1727.57	1721.30	1715.84	1735.00	1680.98	1612.96	1517.95	1491.20	1427.86	1420.99	1451.16	1470.33	1540.07	1594.32
62.50°	1441.49	1537.89	1547.85	1568.13	1560.70	1557.79	1578.31	1532.48	1459.68	1365.52	1341.08	1279.60	1271.84	1301.37	1315.44	1382.52	1441.49
65.00°	1283.66	1389.54	1384.28	1407.95	1399.72	1392.30	1419.84	1383.46	1306.46	1212.86	1190.01	1131.14	1124.70	1152.22	1157.82	1223.74	1283.66
67.50°	1127.31	1228.17	1217.89	1245.97	1237.68	1225.36	1257.46	1222.42	1153.43	1067.12	1039.34	985.87	976.36	1005.75	1006.53	1073.82	1127.31
70.00°	972.23	1065.58	1051.01	1083.72	1073.64	1057.28	1094.51	1057.82	1001.16	922.68	888.72	841.02	826.80	857.70	856.07	923.96	972.23
72.50°	819.52	904.66	891.42	911.81	905.52	893.34	931.60	901.16	850.81	772.13	744.14	694.93	678.44	705.25	711.83	772.83	819.52
75.00°	668.35	744.15	732.49	739.41	737.85	731.84	768.69	746.03	701.50	620.97	599.66	548.78	531.02	555.68	568.01	622.82	668.35
77.50°	519.69	592.18	575.19	586.14	570.89	570.57	609.07	587.94	554.17	481.67	454.03	402.15	385.93	412.06	430.38	481.68	519.69
80.00°	372.28	440.89	418.22	432.72	411.37	409.40	450.21	429.53	411.63	343.41	310.86	257.86	242.18	273.35	293.30	343.84	372.28
82.50°	246.27	295.25	267.44	277.28	260.76	261.74	301.94	292.51	275.87	222.12	189.15	140.52	134.47	142.24	162.53	221.01	246.27
85.00°	128.01	160.70	126.27	133.39	141.36	118.46	162.44	158.19	161.29	107.68	80.80	38.01	42.81	56.24	47.48	112.98	128.01
87.50°	64.04	77.75	61.13	63.72	50.48	55.21	79.32	79.48	69.64	51.70	37.72	21.27	14.43	23.38	23.50	49.94	64.04
90.00°	13.49	13.70	7.05	7.76	9.99	9.20	11.68	8.34	21.87	5.03	4.85	7.67	6.11	7.08	4.90	5.92	13.49
92.50°	6.11	9.24	5.97	5.91	5.54	4.08	7.95	6.60	11.38	5.36	4.75	6.10	4.98	6.10	6.00	4.65	6.11
95.00°	5.64	6.08	5.38	4.65	4.48	4.01	5.12	5.22	6.88	5.48	4.77	5.15	5.37	5.09	6.35	4.06	5.64
97.50°	5.50	5.92	6.34	5.05	5.24	4.29	4.83	5.76	6.24	4.94	5.08	5.84	5.13	4.04	4.73	4.62	5.50
100.00°	5.38	6.13	6.55	5.39	5.19	4.59	4.52	5.85	5.38	4.73	5.08	6.31	4.82	3.90	4.04	5.04	5.38

SLO3IND8 25L 35HK DW xx xx MW

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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	12349	12349	12349	12349	12057	12057	12057	12057	11513	11513	11513	11016	11016	11016	10558	10558	10558	10344
	1	11293	10802	10362	9965	11007	10563	10162	9799	10115	9785	9483	9703	9434	9186	9323	9108	8906	8911
	2	10266	9413	8708	8116	9989	9213	8565	8015	8838	8293	7822	8492	8037	7637	8172	7796	7461	7622
	3	9357	8263	7416	6742	9095	8095	7311	6678	7780	7108	6554	7488	6916	6435	7217	6733	6319	6581
	4	8564	7318	6405	5708	8322	7177	6324	5666	6911	6169	5582	6664	6022	5502	6434	5881	5423	5749
	5	7873	6536	5601	4911	7651	6417	5538	4882	6191	5417	4824	5981	5301	4767	5786	5190	4712	5076
	6	7269	5883	4952	4284	7067	5782	4902	4263	5590	4806	4221	5411	4713	4180	5244	4625	4140	4526
	7	6740	5333	4420	3781	6557	5246	4380	3765	5083	4303	3734	4929	4228	3704	4785	4155	3674	4070
	8	6273	4865	3979	3371	6108	4791	3947	3359	4651	3883	3335	4518	3822	3312	4394	3762	3290	3688
	9	5861	4465	3609	3032	5711	4401	3582	3022	4279	3530	3004	4165	3479	2986	4057	3429	2969	3364
	10	5494	4119	3296	2748	5359	4064	3273	2740	3958	3229	2726	3858	3186	2712	3764	3145	2698	3088

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	120.8 fc	16.3 ft
6.5 ft	86.5 fc	19.3 ft
7.5 ft	64.9 fc	22.3 ft
8.0 ft	57.1 fc	23.8 ft
10.0 ft	36.5 fc	29.7 ft
12.0 ft	25.4 fc	35.6 ft
14.0 ft	18.6 fc	41.6 ft
16.0 ft	14.3 fc	47.5 ft
20.0 ft	9.1 fc	59.4 ft
24.0 ft	6.3 fc	71.3 ft
28.0 ft	4.7 fc	83.2 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	32770	32770	32770
45.00°	30795	32299	32835
55.00°	29509	31333	31814
65.00°	27245	29381	29709
75.00°	23163	25386	25572
85.00°	13174	12995	14548

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	26.0	26.3	23.9	25.5	24.2	25.8	26.1
	3H	25.8	27.2	26.1	27.6	27.9	25.6	27.1	26.0	27.4	27.8
	4H	26.4	27.8	26.8	28.1	28.5	26.2	27.6	26.6	28.0	28.3
	6H	26.8	28.1	27.2	28.5	28.9	26.6	27.9	27.0	28.3	28.7
	8H	26.9	28.2	27.4	28.6	29.0	26.7	27.9	27.1	28.3	28.7
	12H	27.0	28.2	27.4	28.6	29.0	26.7	27.9	27.2	28.3	28.7
4H	2H	24.6	26.0	25.0	26.3	26.7	24.5	25.9	24.9	26.3	26.7
	3H	26.6	27.7	27.0	28.2	28.6	26.5	27.6	26.9	28.0	28.5
	4H	27.4	28.4	27.8	28.8	29.3	27.2	28.3	27.6	28.7	29.1
	6H	27.9	28.8	28.4	29.3	29.7	27.7	28.6	28.1	29.0	29.5
	8H	28.1	28.9	28.5	29.4	29.8	27.8	28.7	28.3	29.1	29.6
	12H	28.2	28.9	28.6	29.4	29.9	27.9	28.6	28.3	29.1	29.6
8H	4H	27.6	28.5	28.1	28.9	29.4	27.5	28.4	28.0	28.8	29.3
	6H	28.3	29.0	28.8	29.5	30.0	28.1	28.8	28.6	29.3	29.8
	8H	28.5	29.2	29.0	29.7	30.2	28.3	28.9	28.8	29.4	29.9
	12H	28.7	29.2	29.2	29.7	30.3	28.3	28.9	28.9	29.4	30.0
12H	4H	27.7	28.4	28.1	28.9	29.4	27.6	28.3	28.0	28.8	29.3
	6H	28.3	29.0	28.9	29.4	30.0	28.2	28.8	28.7	29.3	29.8
	8H	28.6	29.2	29.1	29.6	30.2	28.3	28.9	28.9	29.4	30.0

Corrected UGR values based on total output energy
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0