

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

SLO3IND8 25L 35K DW xx xx MW

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

Test Number

SP-01434_3

Test Date

6/2/2022

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	11751
Efficacy	79.4 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°	1.25
Four luminaires	1.37

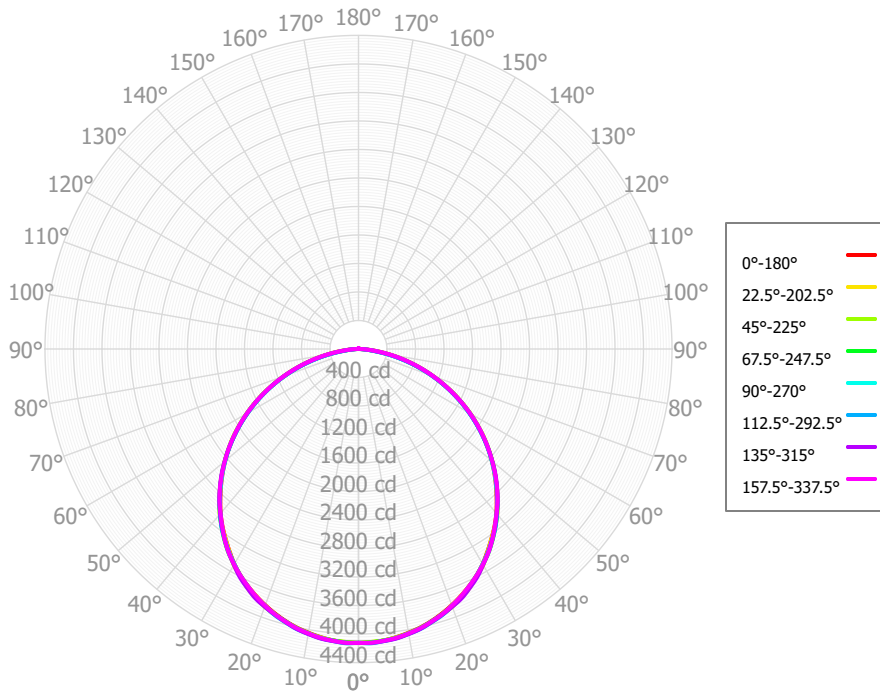
Full Beam Angle

0° - 180°	112°
90° - 270°	112°

IES File Header Contents

Keyword	Value
TEST	SP-01434_3
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	6/2/2022
ISSUEDATE	11/10/2022
LUMCAT	SL03IND8 25L 35K DW xx xx MW
LUMINAIRE	SpecLine Linear Pendant, 1.8" aperture x 8' Long, Matte White Refl
OTHER	Diffuse White Extruded Acrylic Lens, Symmetric Distribution
OTHER	Data for 8' IND fixture, or 8' module for continuous ROW
OTHER	111 Degree Beam Angle
LAMP	N/A, Min. 80 CRI
LAMPCAT	N/A
OTHER	Reference project SL473
OTHER	25L designation for Spectrum linear product indicates 1469 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°	396.41	3.37%	90.00° - 100.00°	10.16	0.09%
10.00° - 20.00°	1117.66	9.51%	100.00° - 110.00°	7.48	0.06%
20.00° - 30.00°	1695.36	14.43%	100.00° - 120.00°	14.78	0.13%
30.00° - 40.00°	2042.73	17.38%	120.00° - 130.00°	6.81	0.06%
40.00° - 50.00°	2113.94	17.99%	130.00° - 140.00°	5.92	0.05%
50.00° - 60.00°	1905.20	16.21%	140.00° - 150.00°	4.81	0.04%
60.00° - 70.00°	1441.27	12.27%	150.00° - 160.00°	3.61	0.03%
70.00° - 80.00°	800.65	6.81%	160.00° - 170.00°	2.28	0.02%
80.00° - 90.00°	188.27	1.60%	170.00° - 180.00°	0.76	0.01%
0.00° - 90.00°	11701.48	99.58%	0.00° - 180.00°	11750.61	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°	4124.68	4124.68	4124.68	4124.68	4124.68	4124.68	4124.68	4124.68	4124.68	4124.68	4124.68	4124.68	4124.68	4124.68	4124.68	4124.68	4124.68
2.50°	4122.20	4116.08	4115.63	4120.56	4127.86	4133.36	4127.97	4125.54	4122.20	4116.08	4115.63	4120.56	4127.86	4133.36	4127.97	4125.54	4122.20
5.00°	4105.00	4106.35	4105.58	4105.86	4110.94	4113.65	4115.15	4109.30	4105.00	4106.35	4105.58	4105.86	4110.94	4113.65	4115.15	4109.30	4105.00
7.50°	4078.57	4084.93	4081.45	4088.72	4091.21	4093.03	4097.34	4087.82	4078.57	4084.93	4081.45	4088.72	4091.21	4093.03	4097.34	4087.82	4078.57
10.00°	4043.90	4055.90	4050.25	4052.03	4055.25	4058.92	4061.98	4052.50	4043.90	4055.90	4050.25	4052.03	4055.25	4058.92	4061.98	4052.50	4043.90
12.50°	4004.19	4016.24	4007.84	4011.28	4017.00	4024.14	4022.51	4011.97	4004.19	4016.24	4007.84	4011.28	4017.00	4024.14	4022.51	4011.97	4004.19
15.00°	3952.87	3967.29	3961.65	3959.18	3961.66	3969.72	3965.75	3960.19	3952.87	3967.29	3961.65	3959.18	3961.66	3969.72	3965.75	3960.19	3952.87
17.50°	3893.27	3903.70	3908.42	3904.21	3905.29	3915.23	3908.56	3903.35	3893.27	3903.70	3908.42	3904.21	3905.29	3915.23	3908.56	3903.35	3893.27
20.00°	3825.86	3834.13	3849.25	3836.01	3837.07	3840.68	3849.18	3832.98	3825.86	3834.13	3849.25	3836.01	3837.07	3840.68	3849.18	3832.98	3825.86
22.50°	3752.18	3753.88	3777.48	3763.68	3767.86	3766.12	3786.25	3755.65	3752.18	3753.88	3777.48	3763.68	3767.86	3766.12	3786.25	3755.65	3752.18
25.00°	3671.63	3673.89	3696.57	3677.56	3680.01	3678.53	3698.57	3672.24	3671.63	3673.89	3696.57	3677.56	3680.01	3678.53	3698.57	3672.24	3671.63
27.50°	3584.86	3594.45	3593.40	3586.39	3591.79	3590.49	3608.66	3585.28	3584.86	3594.45	3593.40	3586.39	3591.79	3590.49	3608.66	3585.28	3584.86
30.00°	3483.95	3501.26	3489.72	3491.25	3486.70	3489.53	3497.71	3490.67	3483.95	3501.26	3489.72	3491.25	3486.70	3489.53	3497.71	3490.67	3483.95
32.50°	3368.21	3374.70	3384.57	3394.42	3381.61	3387.70	3386.25	3390.99	3368.21	3374.70	3384.57	3394.42	3381.61	3387.70	3386.25	3390.99	3368.21
35.00°	3252.15	3252.81	3275.89	3277.10	3266.91	3272.71	3267.49	3273.03	3252.15	3252.81	3275.89	3277.10	3266.91	3272.71	3267.49	3273.03	3252.15
37.50°	3135.72	3144.04	3154.95	3149.47	3152.06	3156.37	3148.39	3140.95	3135.72	3144.04	3154.95	3149.47	3152.06	3156.37	3148.39	3140.95	3135.72
40.00°	3009.53	3027.33	3030.11	3018.76	3016.75	3023.88	3018.01	3012.95	3009.53	3027.33	3030.11	3018.76	3016.75	3023.88	3018.01	3012.95	3009.53
42.50°	2870.35	2884.40	2889.13	2886.30	2880.47	2888.98	2887.63	2888.50	2870.35	2884.40	2889.13	2886.30	2880.47	2888.98	2887.63	2888.50	2870.35
45.00°	2730.08	2740.93	2747.37	2744.96	2736.59	2744.66	2747.46	2750.88	2730.08	2740.93	2747.37	2744.96	2736.59	2744.66	2747.46	2750.88	2730.08
47.50°	2588.18	2595.29	2601.62	2597.85	2592.11	2598.55	2607.30	2600.34	2588.18	2595.29	2601.62	2597.85	2592.11	2598.55	2607.30	2600.34	2588.18
50.00°	2442.56	2448.84	2454.53	2446.27	2441.40	2445.85	2451.48	2448.78	2442.56	2448.84	2454.53	2446.27	2441.40	2445.85	2451.48	2448.78	2442.56
52.50°	2290.40	2298.40	2298.23	2291.29	2289.92	2291.61	2295.18	2296.05	2290.40	2298.40	2298.23	2291.29	2289.92	2291.61	2295.18	2296.05	2290.40
55.00°	2134.21	2145.76	2141.19	2131.74	2127.24	2129.54	2132.66	2139.09	2134.21	2145.76	2141.19	2131.74	2127.24	2129.54	2132.66	2139.09	2134.21
57.50°	1969.96	1979.24	1977.32	1968.30	1962.72	1965.18	1969.70	1976.72	1969.96	1979.24	1977.32	1968.30	1962.72	1965.18	1969.70	1976.72	1969.96
60.00°	1803.88	1812.13	1812.76	1800.81	1792.76	1797.07	1801.49	1810.02	1803.88	1812.13	1812.76	1800.81	1792.76	1797.07	1801.49	1810.02	1803.88
62.50°	1633.60	1639.59	1638.89	1629.44	1621.68	1627.67	1632.72	1637.04	1633.60	1639.59	1638.89	1629.44	1621.68	1627.67	1632.72	1637.04	1633.60
65.00°	1462.49	1466.85	1464.85	1454.86	1447.80	1454.59	1458.27	1463.49	1462.49	1466.85	1464.85	1454.86	1447.80	1454.59	1458.27	1463.49	1462.49
67.50°	1289.10	1291.37	1285.36	1276.72	1273.19	1280.05	1283.01	1288.99	1289.10	1291.37	1285.36	1276.72	1273.19	1280.05	1283.01	1288.99	1289.10
70.00°	1115.02	1116.03	1105.90	1099.09	1095.60	1101.59	1107.69	1115.27	1115.02	1116.03	1105.90	1099.09	1095.60	1101.59	1107.69	1115.27	1115.02
72.50°	938.72	943.79	936.65	922.10	917.09	921.27	932.36	943.04	938.72	943.79	936.65	922.10	917.09	921.27	932.36	943.04	938.72
75.00°	764.68	771.58	767.41	745.82	737.91	742.98	759.64	772.87	764.68	771.58	767.41	745.82	737.91	742.98	759.64	772.87	764.68
77.50°	599.32	606.34	597.92	570.57	558.48	565.79	587.55	607.22	599.32	606.34	597.92	570.57	558.48	565.79	587.55	607.22	599.32
80.00°	438.31	441.11	428.43	402.11	389.81	396.60	421.10	445.56	438.31	441.11	428.43	402.11	389.81	396.60	421.10	445.56	438.31
82.50°	298.46	297.49	277.50	244.71	225.67	232.34	256.26	294.36	298.46	297.49	277.50	244.71	225.67	232.34	256.26	294.36	298.46
85.00°	167.03	154.46	127.85	120.01	122.60	123.09	147.51	160.42	167.03	154.46	127.85	120.01	122.60	123.09	147.51	160.42	167.03
87.50°	87.11	86.52	69.47	56.76	50.08	52.17	57.64	79.34	87.11	86.52	69.47	56.76	50.08	52.17	57.64	79.34	87.11
90.00°	15.55	23.02	20.55	12.46	18.44	17.01	22.84	14.81	15.55	23.02	20.55	12.46	18.44	17.01	22.84	14.81	15.55
92.50°	10.97	13.02	11.43	8.82	10.10	10.85	10.40	10.18	10.97	13.02	11.43	8.82	10.10	10.85	10.40	10.18	10.97
95.00°	6.73	8.50	7.91	6.33	6.92	7.52	6.71	6.35	6.73	8.50	7.91	6.33	6.92	7.52	6.71	6.35	6.73
97.50°	6.85	7.49	7.14	6.64	7.07	6.80	7.10	6.04	6.85	7.49	7.14	6.64	7.07	6.80	7.10	6.04	6.85
100.00°	6.98	6.97	6.90	6.86	7.08	6.35	7.88	5.79	6.98	6.97	6.90	6.86	7.08	6.35	7.88	5.79	6.98

SLO3IND8 25L 35K 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	13977	13977	13977	13977	13646	13646	13646	13646	13029	13029	13029	12464	12464	12464	11945	11945	11945	11701
	1	12777	12219	11718	11268	12452	11947	11492	11079	11438	11063	10720	10970	10665	10382	10539	10294	10065	10071
	2	11613	10645	9844	9172	11298	10418	9682	9058	9992	9373	8838	9599	9082	8628	9236	8809	8428	8611
	3	10583	9342	8382	7618	10286	9152	8262	7545	8794	8031	7404	8462	7813	7268	8155	7606	7136	7434
	4	9686	8273	7238	6448	9411	8113	7147	6400	7810	6970	6305	7530	6802	6213	7269	6642	6123	6492
	5	8904	7388	6329	5547	8652	7253	6258	5513	6997	6120	5447	6759	5988	5383	6536	5861	5320	5732
	6	8221	6650	5595	4838	7992	6535	5538	4814	6317	5429	4766	6114	5324	4720	5924	5222	4674	5111
	7	7622	6028	4994	4270	7414	5930	4949	4252	5744	4860	4216	5569	4775	4182	5406	4692	4148	4596
	8	7094	5499	4496	3806	6907	5415	4459	3793	5255	4386	3766	5105	4316	3739	4964	4248	3713	4164
	9	6628	5047	4078	3423	6458	4974	4047	3413	4836	3987	3392	4706	3929	3371	4583	3872	3351	3799
	10	6213	4656	3723	3103	6060	4593	3698	3094	4473	3647	3078	4359	3598	3061	4252	3551	3045	3487

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	136.4 fc	16.3 ft
6.5 ft	97.6 fc	19.3 ft
7.5 ft	73.3 fc	22.3 ft
8.0 ft	64.4 fc	23.7 ft
10.0 ft	41.2 fc	29.7 ft
12.0 ft	28.6 fc	35.6 ft
14.0 ft	21.0 fc	41.6 ft
16.0 ft	16.1 fc	47.5 ft
20.0 ft	10.3 fc	59.4 ft
24.0 ft	7.2 fc	71.2 ft
28.0 ft	5.3 fc	83.1 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	36998	36998	36998
45.00°	34632	34851	34715
55.00°	33376	33485	33267
65.00°	31041	31091	30729
75.00°	26502	26596	25574
85.00°	17191	13158	12617

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	24.4	26.0	24.7	26.3	26.6	24.3	26.0	24.7	26.3	26.6
	3H	26.2	27.6	26.5	28.0	28.3	26.1	27.6	26.5	27.9	28.3
	4H	26.8	28.2	27.2	28.5	28.9	26.7	28.1	27.1	28.5	28.8
	6H	27.2	28.5	27.7	28.9	29.3	27.1	28.4	27.5	28.8	29.2
	8H	27.4	28.6	27.8	29.0	29.4	27.2	28.4	27.6	28.8	29.2
	12H	27.5	28.6	27.9	29.0	29.5	27.2	28.4	27.6	28.8	29.2
4H	2H	25.0	26.4	25.4	26.7	27.1	25.0	26.4	25.4	26.7	27.1
	3H	27.0	28.2	27.4	28.6	29.0	26.9	28.1	27.4	28.5	28.9
	4H	27.8	28.8	28.2	29.2	29.7	27.7	28.7	28.1	29.2	29.6
	6H	28.3	29.3	28.8	29.7	30.2	28.2	29.1	28.6	29.5	30.0
	8H	28.5	29.4	29.0	29.8	30.3	28.3	29.1	28.7	29.6	30.1
	12H	28.6	29.4	29.1	29.9	30.4	28.3	29.1	28.8	29.6	30.1
8H	4H	28.1	28.9	28.5	29.4	29.8	28.0	28.8	28.4	29.3	29.8
	6H	28.7	29.5	29.2	29.9	30.4	28.6	29.3	29.1	29.8	30.3
	8H	29.0	29.6	29.5	30.1	30.6	28.7	29.4	29.2	29.9	30.4
	12H	29.1	29.7	29.6	30.2	30.8	28.8	29.4	29.3	29.9	30.4
12H	4H	28.1	28.9	28.6	29.3	29.8	28.0	28.8	28.5	29.3	29.7
	6H	28.8	29.4	29.3	29.9	30.4	28.6	29.3	29.1	29.7	30.3
	8H	29.0	29.6	29.6	30.1	30.7	28.8	29.4	29.3	29.9	30.4

Corrected UGR values based on total output energy
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0