

## **Indoor Distribution Test Report**

# **Spectrum Lighting Inc.**

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## **Spectrum Lighting Photometric Lab**

### **Luminaire**

SLO3IND8 05L 35K DW xx xx MW  
Specline Linear Pendant, 1.8" aperture x 8' Long, Matte White Refl

### **Test Number**

SP-01434

### **Test Date**

6/3/2022

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

### Summary of Results

#### Power

Input Watts	38 W
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#### Lumen Output

Output Lumens	2546
Efficacy	67.01 lm/W

#### Luminous Dimensions

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

#### Spacing Criterion

Two luminaires, plane 0°	1.24
Two luminaires, plane 90°	1.24
Four luminaires	1.35

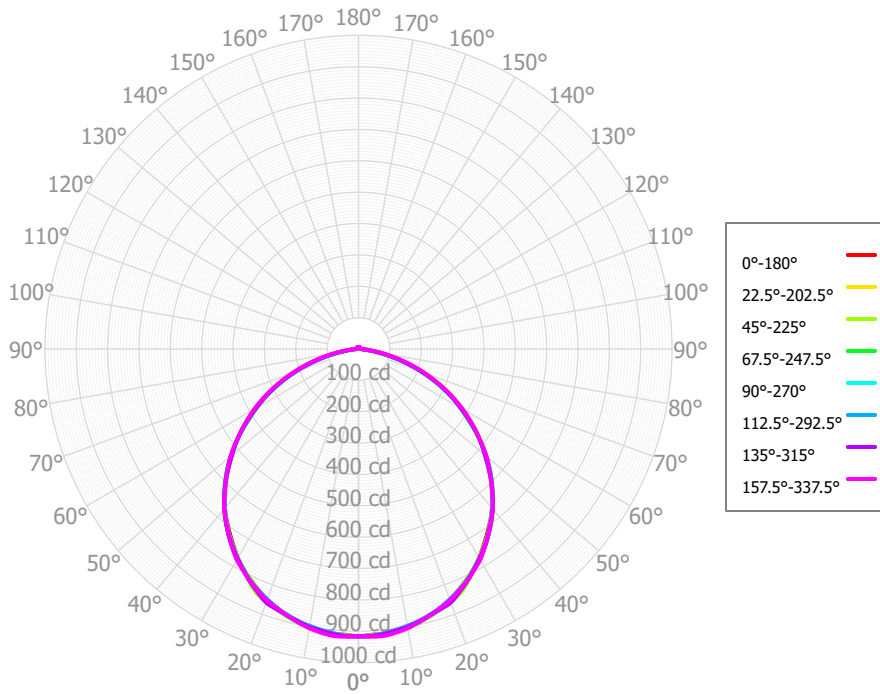
#### Full Beam Angle

0° - 180°	110°
90° - 270°	110°

### IES File Header Contents

Keyword	Value
TEST	SP-01434
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	6/3/2022
ISSUEDATE	11/10/2022
LUMCAT	SL03IND8 05L 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
OTHER	111 Degree Beam Angle
LAMP	N/A, Min. 80 CRI
LAMPCAT	N/A
OTHER	Reference project SL473
OTHER	05L designation for Spectrum linear product indicates 318 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°	88.06	3.46%	90.00° - 100.00°	6.47	0.25%
10.00° - 20.00°	248.34	9.75%	100.00° - 110.00°	6.13	0.24%
20.00° - 30.00°	375.74	14.76%	100.00° - 120.00°	12.00	0.47%
30.00° - 40.00°	450.77	17.70%	120.00° - 130.00°	5.27	0.21%
40.00° - 50.00°	461.64	18.13%	130.00° - 140.00°	4.56	0.18%
50.00° - 60.00°	407.26	15.99%	140.00° - 150.00°	3.79	0.15%
60.00° - 70.00°	297.09	11.67%	150.00° - 160.00°	2.77	0.11%
70.00° - 80.00°	149.51	5.87%	160.00° - 170.00°	1.72	0.07%
80.00° - 90.00°	30.82	1.21%	170.00° - 180.00°	0.59	0.02%
0.00° - 90.00°	2509.25	98.54%	0.00° - 180.00°	2546.42	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°	916.64	916.64	916.64	916.64	916.64	916.64	916.64	916.64	916.64	916.64	916.64	916.64	916.64	916.64	916.64	916.64	916.64
2.50°	912.71	916.30	913.86	916.75	916.05	915.54	916.44	918.46	912.71	916.30	913.86	916.75	916.05	915.54	916.44	918.46	912.71
5.00°	911.14	915.38	911.40	913.89	912.80	910.36	913.07	918.72	911.14	915.38	911.40	913.89	912.80	910.36	913.07	918.72	911.14
7.50°	904.41	909.42	907.43	908.84	907.57	904.47	906.99	912.64	904.41	909.42	907.43	908.84	907.57	904.47	906.99	912.64	904.41
10.00°	897.67	903.08	900.02	901.52	901.53	897.02	900.49	904.40	897.67	903.08	900.02	901.52	901.53	897.02	900.49	904.40	897.67
12.50°	890.87	893.23	890.82	892.73	892.09	888.40	890.33	892.52	890.87	893.23	890.82	892.73	892.09	888.40	890.33	892.52	890.87
15.00°	881.61	883.23	880.54	881.03	881.48	877.67	879.80	879.65	881.61	883.23	880.54	881.03	881.48	877.67	879.80	879.65	881.61
17.50°	866.97	868.14	869.77	867.76	866.77	865.16	870.28	866.27	866.97	868.14	869.77	867.76	866.77	865.16	870.28	866.27	866.97
20.00°	851.19	852.77	857.63	852.13	850.94	849.87	860.81	852.77	851.19	852.77	857.63	852.13	850.94	849.87	860.81	852.77	851.19
22.50°	833.33	831.90	844.99	835.42	833.59	833.15	839.92	835.15	833.33	831.90	844.99	835.42	833.59	833.15	839.92	835.15	833.33
25.00°	814.09	811.30	821.44	815.40	815.91	814.53	818.81	816.89	814.09	811.30	821.44	815.40	815.91	814.53	818.81	816.89	814.09
27.50°	792.69	793.52	794.72	794.13	794.15	794.56	795.32	796.78	792.69	793.52	794.72	794.13	794.15	794.56	795.32	796.78	792.69
30.00°	769.07	774.64	769.58	772.13	771.74	773.09	771.76	776.47	769.07	774.64	769.58	772.13	771.74	773.09	771.76	776.47	769.07
32.50°	742.55	748.26	744.80	749.91	746.36	749.13	747.31	749.66	742.55	748.26	744.80	749.91	746.36	749.13	747.31	749.66	742.55
35.00°	716.34	721.70	721.02	722.80	720.66	722.78	722.50	722.46	716.34	721.70	721.02	722.80	720.66	722.78	722.50	722.46	716.34
37.50°	690.48	694.23	697.42	694.49	692.03	694.38	694.72	694.19	690.48	694.23	697.42	694.49	692.03	694.38	694.72	694.19	690.48
40.00°	662.12	665.15	666.07	663.83	663.21	664.31	666.18	665.76	662.12	665.15	666.07	663.83	663.21	664.31	666.18	665.76	662.12
42.50°	631.36	629.83	633.78	632.75	630.63	633.53	633.18	632.01	631.36	629.83	633.78	632.75	630.63	633.53	633.18	632.01	631.36
45.00°	598.52	595.68	599.67	600.43	597.91	602.25	599.49	598.35	598.52	595.68	599.67	600.43	597.91	602.25	599.49	598.35	598.52
47.50°	563.97	565.12	565.42	567.95	562.47	567.84	562.69	566.02	563.97	565.12	565.42	567.95	562.47	567.84	562.69	566.02	563.97
50.00°	528.61	532.80	530.15	531.35	527.08	531.60	526.58	533.06	528.61	532.80	530.15	531.35	527.08	531.60	526.58	533.06	528.61
52.50°	492.68	496.13	494.83	494.41	492.63	493.45	492.79	494.79	492.68	496.13	494.83	494.41	492.63	493.45	492.79	494.79	492.68
55.00°	456.54	458.81	457.57	452.95	457.62	454.36	457.12	456.80	456.54	458.81	457.57	452.95	457.62	454.36	457.12	456.80	456.54
57.50°	420.28	420.13	420.15	411.34	417.83	416.64	416.27	420.41	420.28	420.13	420.15	411.34	417.83	416.64	416.27	420.41	420.28
60.00°	382.21	382.04	379.97	374.66	377.88	379.47	376.40	383.45	382.21	382.04	379.97	374.66	377.88	379.47	376.40	383.45	382.21
62.50°	343.27	344.95	339.92	337.81	337.03	339.84	338.74	343.97	343.27	344.95	339.92	337.81	337.03	339.84	338.74	343.97	343.27
65.00°	303.57	306.50	301.13	297.34	296.32	299.39	300.02	304.26	303.57	306.50	301.13	297.34	296.32	299.39	300.02	304.26	303.57
67.50°	263.57	266.06	262.00	256.81	256.27	258.56	259.28	263.77	263.57	266.06	262.00	256.81	256.27	258.56	259.28	263.77	263.57
70.00°	223.21	225.38	220.58	215.71	216.44	217.62	218.53	223.68	223.21	225.38	220.58	215.71	216.44	217.62	218.53	223.68	223.21
72.50°	182.74	184.41	179.79	174.80	177.32	175.63	177.74	184.68	182.74	184.41	179.79	174.80	177.32	175.63	177.74	184.68	182.74
75.00°	144.23	145.59	141.95	135.28	138.26	133.42	138.92	146.48	144.23	145.59	141.95	135.28	138.26	133.42	138.92	146.48	144.23
77.50°	106.24	109.03	104.95	96.93	99.34	96.14	102.74	110.08	106.24	109.03	104.95	96.93	99.34	96.14	102.74	110.08	106.24
80.00°	73.89	75.86	70.99	64.47	64.29	59.59	69.76	76.18	73.89	75.86	70.99	64.47	64.29	59.59	69.76	76.18	73.89
82.50°	42.72	45.76	41.18	35.63	38.31	37.88	40.43	47.04	42.72	45.76	41.18	35.63	38.31	37.88	40.43	47.04	42.72
85.00°	26.50	25.68	23.65	20.78	18.71	17.62	21.03	24.75	26.50	25.68	23.65	20.78	18.71	17.62	21.03	24.75	26.50
87.50°	12.53	13.33	10.23	9.05	11.42	11.82	11.46	13.56	12.53	13.33	10.23	9.05	11.42	11.82	11.46	13.56	12.53
90.00°	8.87	7.44	6.72	7.11	6.65	6.81	6.66	6.81	8.87	7.44	6.72	7.11	6.65	6.81	6.66	6.81	8.87
92.50°	6.22	5.76	4.55	5.67	6.04	6.70	5.88	6.10	6.22	5.76	4.55	5.67	6.04	6.70	5.88	6.10	6.22
95.00°	5.46	5.37	5.04	5.49	5.81	6.64	5.63	5.82	5.46	5.37	5.04	5.49	5.81	6.64	5.63	5.82	5.46
97.50°	4.81	5.70	5.32	5.41	6.09	6.77	5.76	6.03	4.81	5.70	5.32	5.41	6.09	6.77	5.76	6.03	4.81
100.00°	5.22	5.44	5.24	5.55	6.26	6.88	5.57	6.18	5.22	5.44	5.24	5.55	6.26	6.88	5.57	6.18	5.22

SLO3IND8 05L 35K DW xx xx MW

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### 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>	3023	3023	3023	3023	2948	2948	2948	2948	2809	2809	2809	2681	2681	2681	2564	2564	2564	2509
	<b>1</b>	2772	2655	2551	2456	2699	2594	2499	2413	2479	2401	2330	2374	2311	2252	2277	2226	2179	2176
	<b>2</b>	2525	2321	2152	2010	2455	2270	2115	1983	2174	2044	1932	2085	1977	1882	2003	1914	1835	1870
	<b>3</b>	2305	2042	1838	1676	2239	1999	1810	1659	1918	1757	1625	1843	1706	1592	1774	1658	1560	1619
	<b>4</b>	2111	1811	1591	1423	2050	1775	1569	1411	1706	1528	1387	1643	1489	1364	1584	1452	1342	1418
	<b>5</b>	1942	1619	1393	1226	1886	1588	1376	1218	1530	1344	1201	1476	1313	1185	1426	1283	1169	1254
	<b>6</b>	1794	1458	1233	1071	1743	1432	1219	1065	1383	1193	1052	1336	1168	1040	1293	1144	1028	1119
	<b>7</b>	1664	1322	1101	946	1617	1300	1090	941	1258	1069	932	1218	1049	923	1181	1029	914	1007
	<b>8</b>	1549	1207	992	844	1507	1188	983	840	1151	966	833	1117	949	826	1084	932	819	913
	<b>9</b>	1447	1108	900	760	1409	1091	893	757	1059	878	751	1030	864	745	1001	850	739	833
	<b>10</b>	1357	1022	822	689	1322	1008	816	686	980	803	682	954	792	677	929	780	672	765

### Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	30.3 fc	15.6 ft
6.5 ft	21.7 fc	18.4 ft
7.5 ft	16.3 fc	21.3 ft
8.0 ft	14.3 fc	22.7 ft
10.0 ft	9.2 fc	28.4 ft
12.0 ft	6.4 fc	34.0 ft
14.0 ft	4.7 fc	39.7 ft
16.0 ft	3.6 fc	45.4 ft
20.0 ft	2.3 fc	56.7 ft
24.0 ft	1.6 fc	68.1 ft
28.0 ft	1.2 fc	79.4 ft

### Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
<b>0.00°</b>	8222	8222	8222
<b>45.00°</b>	7592	7607	7585
<b>55.00°</b>	7140	7156	7157
<b>65.00°</b>	6443	6391	6289
<b>75.00°</b>	4999	4920	4792
<b>85.00°</b>	2728	2434	1925

### UGR CIE 190:2010

<b>Ceiling reflectance</b>		<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>	<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>
<b>Wall reflectance</b>		<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>
<b>Plane reflectance</b>		<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>
<b>Room dimensions</b>		<b>Viewed crosswise</b>					<b>Viewed endwise</b>				
<b>2H</b>	<b>2H</b>	18.9	20.5	19.3	20.8	21.2	18.8	20.4	19.2	20.7	21.1
	<b>3H</b>	20.6	22.0	21.0	22.4	22.7	20.4	21.9	20.8	22.2	22.6
	<b>4H</b>	21.1	22.4	21.5	22.8	23.2	20.9	22.3	21.4	22.7	23.1
	<b>6H</b>	21.4	22.7	21.9	23.1	23.5	21.2	22.4	21.6	22.8	23.3
	<b>8H</b>	21.5	22.7	21.9	23.1	23.5	21.2	22.4	21.7	22.8	23.3
	<b>12H</b>	21.5	22.6	22.0	23.1	23.5	21.3	22.4	21.7	22.8	23.3
<b>4H</b>	<b>2H</b>	19.5	20.8	19.9	21.2	21.6	19.4	20.8	19.8	21.1	21.5
	<b>3H</b>	21.3	22.5	21.8	22.9	23.3	21.2	22.3	21.7	22.8	23.2
	<b>4H</b>	22.0	23.0	22.5	23.5	23.9	21.8	22.8	22.3	23.3	23.7
	<b>6H</b>	22.4	23.3	22.9	23.8	24.3	22.2	23.0	22.6	23.5	24.0
	<b>8H</b>	22.5	23.3	23.0	23.8	24.3	22.2	23.0	22.7	23.5	24.0
	<b>12H</b>	22.6	23.3	23.1	23.8	24.3	22.2	23.0	22.8	23.5	24.0
<b>8H</b>	<b>4H</b>	22.2	23.0	22.7	23.5	24.0	22.1	22.9	22.5	23.3	23.8
	<b>6H</b>	22.7	23.4	23.2	23.9	24.4	22.5	23.1	23.0	23.7	24.2
	<b>8H</b>	22.9	23.5	23.4	24.0	24.5	22.5	23.2	23.1	23.7	24.2
	<b>12H</b>	22.9	23.5	23.5	24.0	24.6	22.6	23.1	23.1	23.7	24.3
<b>12H</b>	<b>4H</b>	22.2	23.0	22.7	23.5	24.0	22.1	22.8	22.6	23.3	23.8
	<b>6H</b>	22.7	23.3	23.3	23.8	24.4	22.5	23.1	23.0	23.6	24.2
	<b>8H</b>	22.9	23.4	23.4	23.9	24.5	22.6	23.1	23.1	23.7	24.2

Corrected UGR values based on total output energy  
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0