

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

LT03IND24 25L 35K LW xx xx MW

Specline Linear Pendant, 1.8" aperture x 2' Long, Matte White Refl

Test Number

SP-01547_3

Test Date

6/3/2022

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

Summary of Results

Power

Input Watts	39 W
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Lumen Output

Output Lumens	3399
Efficacy	87.15 lm/W

Luminous Dimensions

0° - 180° Size	0.15
90° - 270° Size	2
Height	0

Spacing Criterion

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

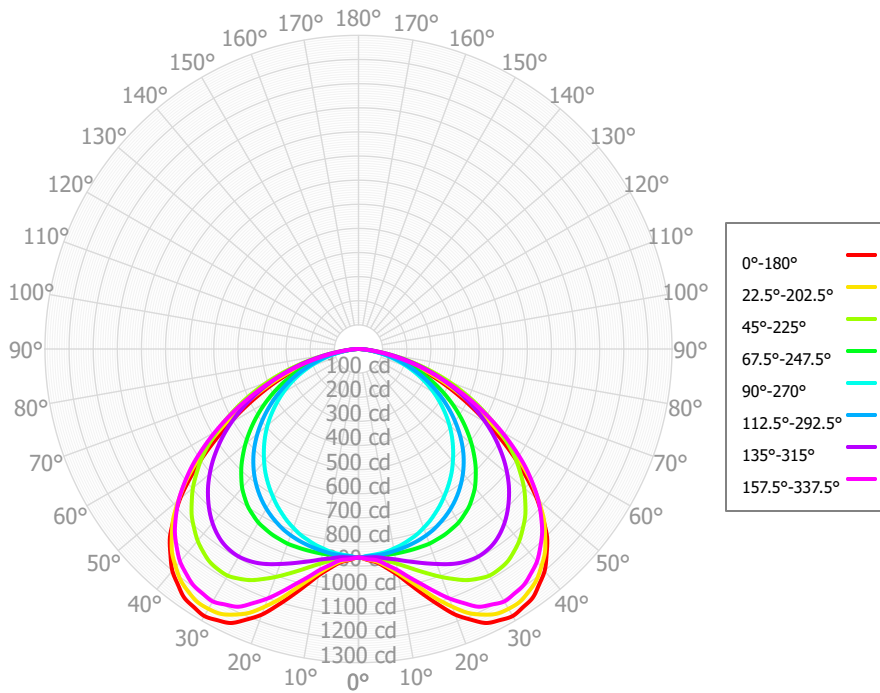
Full Beam Angle

0° - 180°	119°
90° - 270°	74°

IES File Header Contents

Keyword	Value
TEST	SP-01547_3
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	6/3/2022
ISSUEDATE	3/27/2022
LUMCAT	LT03IND24 25L 35K LW xx xx MW
LUMINAIRE	SpecLine Linear Pendant, 1.8" aperture x 2' Long, Matte White Refl
OTHER	Wide Extruded Acrylic Lens, Batwing Distribution
OTHER	Data for 2' IND fixture, Ceiling mount
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
_CRI	80
_CCTMULT	30K x 0.97, 40K x 1.02

Candela Polar Plot



Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0.00° - 10.00°	85.36	2.51%	90.00° - 100.00°	0.00	0.00%
10.00° - 20.00°	266.88	7.85%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	465.47	13.69%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	617.94	18.18%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	671.21	19.75%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	600.83	17.68%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	430.19	12.66%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	217.69	6.40%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	43.47	1.28%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	3399.04	100.00%	0.00° - 180.00°	3399.04	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°	864.82	864.82	864.82	864.82	864.82	864.82	864.82	864.82	864.82	864.82	864.82	864.82	864.82	864.82	864.82	864.82	864.82
2.50°	875.93	873.82	865.79	861.40	858.56	860.45	865.32	872.64	875.93	873.82	865.79	861.40	858.56	860.45	865.32	872.64	875.93
5.00°	889.12	885.29	873.01	860.33	854.24	858.53	866.76	879.59	889.12	885.29	873.01	860.33	854.24	858.53	866.76	879.59	889.12
7.50°	917.52	909.95	885.11	861.02	849.66	855.94	875.79	903.27	917.52	909.95	885.11	861.02	849.66	855.94	875.79	903.27	917.52
10.00°	953.02	943.31	903.24	862.01	840.37	850.86	885.98	930.70	953.02	943.31	903.24	862.01	840.37	850.86	885.98	930.70	953.02
12.50°	1002.31	985.00	925.17	861.72	830.91	845.36	900.49	969.04	1002.31	985.00	925.17	861.72	830.91	845.36	900.49	969.04	1002.31
15.00°	1056.77	1033.60	950.88	861.30	818.70	838.73	915.51	1009.01	1056.77	1033.60	950.88	861.30	818.70	838.73	915.51	1009.01	1056.77
17.50°	1114.03	1087.57	977.89	860.22	806.07	831.28	931.95	1054.65	1114.03	1087.57	977.89	860.22	806.07	831.28	931.95	1054.65	1114.03
20.00°	1172.10	1137.24	1005.97	859.07	789.31	822.04	948.59	1100.77	1172.10	1137.24	1005.97	859.07	789.31	822.04	948.59	1100.77	1172.10
22.50°	1214.46	1184.21	1032.29	853.92	772.08	811.07	965.67	1140.39	1214.46	1184.21	1032.29	853.92	772.08	811.07	965.67	1140.39	1214.46
25.00°	1253.66	1215.20	1057.43	848.56	751.96	797.00	979.96	1179.31	1253.66	1215.20	1057.43	848.56	751.96	797.00	979.96	1179.31	1253.66
27.50°	1267.79	1238.01	1073.69	839.94	731.34	781.61	989.36	1194.81	1267.79	1238.01	1073.69	839.94	731.34	781.61	989.36	1194.81	1267.79
30.00°	1278.55	1244.15	1085.19	830.60	708.60	764.35	993.65	1208.73	1278.55	1244.15	1085.19	830.60	708.60	764.35	993.65	1208.73	1278.55
32.50°	1269.66	1243.61	1083.60	815.22	685.52	745.02	990.55	1202.60	1269.66	1243.61	1083.60	815.22	685.52	745.02	990.55	1202.60	1269.66
35.00°	1259.30	1229.13	1076.50	798.63	661.37	723.32	981.13	1194.75	1259.30	1229.13	1076.50	798.63	661.37	723.32	981.13	1194.75	1259.30
37.50°	1230.60	1210.40	1058.82	775.63	636.27	699.52	964.34	1174.14	1230.60	1210.40	1058.82	775.63	636.27	699.52	964.34	1174.14	1230.60
40.00°	1200.97	1178.83	1037.60	750.84	608.81	673.70	941.86	1150.98	1200.97	1178.83	1037.60	750.84	608.81	673.70	941.86	1150.98	1200.97
42.50°	1154.50	1144.42	1008.69	719.41	581.00	645.44	914.01	1115.55	1154.50	1144.42	1008.69	719.41	581.00	645.44	914.01	1115.55	1154.50
45.00°	1106.19	1094.53	977.88	686.59	552.53	615.29	881.77	1076.87	1106.19	1094.53	977.88	686.59	552.53	615.29	881.77	1076.87	1106.19
47.50°	1037.10	1042.23	937.88	649.79	523.16	582.10	846.08	1026.93	1037.10	1042.23	937.88	649.79	523.16	582.10	846.08	1026.93	1037.10
50.00°	965.86	973.41	896.31	611.88	492.43	547.00	805.32	973.07	965.86	973.41	896.31	611.88	492.43	547.00	805.32	973.07	965.86
52.50°	880.72	903.11	846.47	571.50	460.64	510.22	761.35	908.57	880.72	903.11	846.47	571.50	460.64	510.22	761.35	908.57	880.72
55.00°	794.85	822.36	795.78	530.42	427.50	472.56	713.15	840.13	794.85	822.36	795.78	530.42	427.50	472.56	713.15	840.13	794.85
57.50°	705.76	741.23	735.59	488.10	394.08	433.91	662.82	763.39	705.76	741.23	735.59	488.10	394.08	433.91	662.82	763.39	705.76
60.00°	618.82	656.42	674.89	445.12	360.38	394.86	608.62	685.36	618.82	656.42	674.89	445.12	360.38	394.86	608.62	685.36	618.82
62.50°	538.97	572.09	608.36	401.18	325.60	355.13	552.91	605.18	538.97	572.09	608.36	401.18	325.60	355.13	552.91	605.18	538.97
65.00°	461.66	494.16	541.67	356.79	289.93	315.20	493.65	526.02	461.66	494.16	541.67	356.79	289.93	315.20	493.65	526.02	461.66
67.50°	390.70	417.10	472.36	311.88	253.51	275.02	433.31	448.26	390.70	417.10	472.36	311.88	253.51	275.02	433.31	448.26	390.70
70.00°	322.14	346.30	402.92	267.01	216.57	234.79	371.46	373.17	322.14	346.30	402.92	267.01	216.57	234.79	371.46	373.17	322.14
72.50°	258.27	276.95	332.44	222.19	180.78	196.11	309.28	301.03	258.27	276.95	332.44	222.19	180.78	196.11	309.28	301.03	258.27
75.00°	198.11	214.80	262.49	178.18	145.64	157.68	247.84	233.39	198.11	214.80	262.49	178.18	145.64	157.68	247.84	233.39	198.11
77.50°	143.90	155.17	195.43	134.82	110.84	120.91	186.51	169.79	143.90	155.17	195.43	134.82	110.84	120.91	186.51	169.79	143.90
80.00°	95.69	104.54	131.55	95.27	76.18	84.28	131.05	114.64	95.69	104.54	131.55	95.27	76.18	84.28	131.05	114.64	95.69
82.50°	55.21	60.15	79.69	58.14	48.37	53.63	76.13	65.81	55.21	60.15	79.69	58.14	48.37	53.63	76.13	65.81	55.21
85.00°	27.02	32.40	36.56	31.82	22.86	23.47	41.93	34.06	27.02	32.40	36.56	31.82	22.86	23.47	41.93	34.06	27.02
87.50°	11.66	11.66	19.00	10.94	11.18	12.88	9.02	12.58	11.66	11.66	19.00	10.94	11.18	12.88	9.02	12.58	11.66
90.00°	3.69	5.92	6.01	3.66	3.09	2.95	5.43	4.26	3.69	5.92	6.01	3.66	3.09	2.95	5.43	4.26	3.69

Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

RCR	ptc	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%	0%
	pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	30%
	0	4046	4046	4046	4046	3952	3952	3952	3952	3777	3777	3777	3616	3616	3616	3468	3468	3399
	1	3699	3538	3393	3262	3606	3460	3328	3209	3316	3207	3107	3183	3094	3012	3060	2989	2925
	2	3356	3073	2839	2643	3266	3008	2793	2611	2887	2706	2550	2775	2624	2491	2672	2547	2435
	3	3050	2686	2404	2180	2964	2631	2370	2160	2529	2305	2121	2435	2244	2083	2347	2186	2047
	4	2782	2367	2062	1830	2703	2321	2037	1817	2235	1987	1791	2155	1940	1766	2080	1895	1742
	5	2550	2103	1791	1560	2477	2064	1771	1551	1991	1732	1534	1923	1695	1517	1860	1660	1500
	6	2346	1883	1572	1349	2280	1850	1556	1342	1788	1525	1330	1730	1496	1317	1676	1468	1305
	7	2169	1698	1393	1179	2108	1670	1380	1175	1617	1356	1166	1567	1332	1157	1520	1309	1148
	8	2012	1542	1245	1042	1958	1518	1235	1038	1472	1215	1032	1429	1196	1025	1389	1177	1018
	9	1875	1408	1122	929	1825	1387	1113	926	1348	1097	921	1311	1081	916	1276	1065	911
	10	1753	1293	1018	835	1708	1275	1011	833	1241	997	829	1208	983	824	1178	970	820

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	28.6 fc	18.6 ft
6.5 ft	20.5 fc	22.0 ft
7.5 ft	15.4 fc	25.4 ft
8.0 ft	13.5 fc	27.1 ft
10.0 ft	8.6 fc	33.8 ft
12.0 ft	6.0 fc	40.6 ft
14.0 ft	4.4 fc	47.4 ft
16.0 ft	3.4 fc	54.1 ft
20.0 ft	2.2 fc	67.7 ft
24.0 ft	1.5 fc	81.2 ft
28.0 ft	1.1 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