

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

LT03IND24 11L 35K LW xx xx MW

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

Test Number

SP-01547_1

Test Date

6/3/2022

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

Summary of Results

Power

Input Watts	19 W
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Lumen Output

Output Lumens	1596
Efficacy	84.02 lm/W

Luminous Dimensions

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

Spacing Criterion

Two luminaires, plane 0°	1.88
Two luminaires, plane 90°	1.2
Four luminaires	1.7

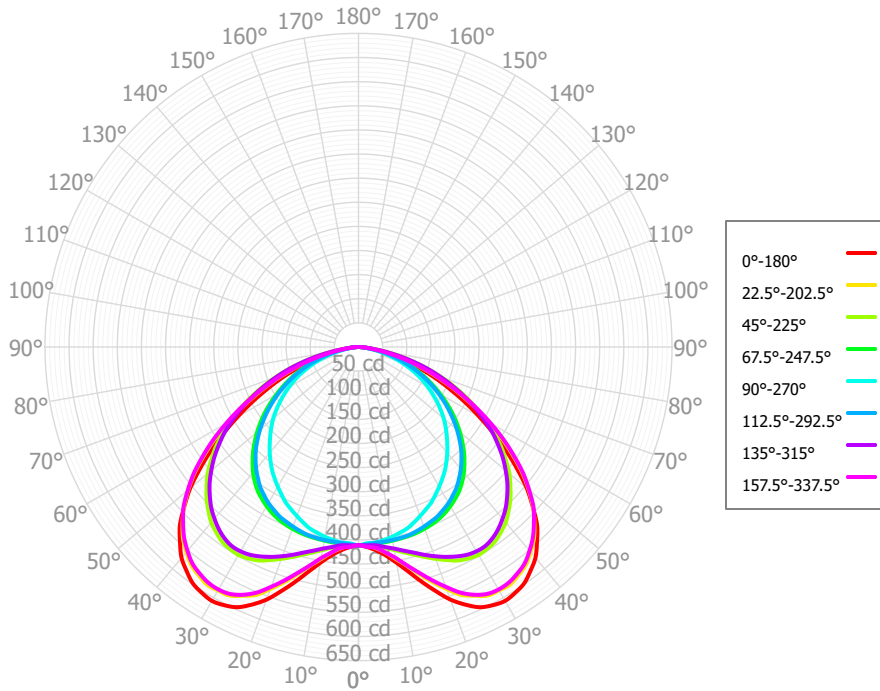
Full Beam Angle

0° - 180°	118°
90° - 270°	73°

IES File Header Contents

Keyword	Value
TEST	SP-01547_1
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	6/3/2022
ISSUEDATE	3/27/2023
LUMCAT	LT03IND24 11L 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	11L designation for Spectrum linear product indicates 798 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°	40.57	2.54%	90.00° - 100.00°	0.00	0.00%
10.00° - 20.00°	126.85	7.95%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	220.99	13.84%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	293.08	18.36%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	317.36	19.88%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	282.45	17.69%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	199.57	12.50%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	97.39	6.10%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	18.06	1.13%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	1596.31	100.00%	0.00° - 180.00°	1596.31	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°	411.19	411.19	411.19	411.19	411.19	411.19	411.19	411.19	411.19	411.19	411.19	411.19	411.19	411.19	411.19	411.19	411.19
2.50°	415.23	411.23	411.75	410.12	407.39	409.56	411.70	414.88	415.23	411.23	411.75	410.12	407.39	409.56	411.70	414.88	415.23
5.00°	423.46	418.91	414.62	409.42	406.84	407.78	412.77	418.14	423.46	418.91	414.62	409.42	406.84	407.78	412.77	418.14	423.46
7.50°	436.05	429.85	419.42	408.63	403.70	406.84	418.26	429.75	436.05	429.85	419.42	408.63	403.70	406.84	418.26	429.75	436.05
10.00°	454.19	446.22	427.24	407.59	399.57	406.23	424.42	444.09	454.19	446.22	427.24	407.59	399.57	406.23	424.42	444.09	454.19
12.50°	476.62	464.22	435.98	406.51	394.68	405.11	432.52	463.58	476.62	464.22	435.98	406.51	394.68	405.11	432.52	463.58	476.62
15.00°	503.24	487.18	445.81	405.35	389.60	403.84	441.33	484.31	503.24	487.18	445.81	405.35	389.60	403.84	441.33	484.31	503.24
17.50°	530.16	511.13	456.31	403.62	381.60	400.31	451.63	506.81	530.16	511.13	456.31	403.62	381.60	400.31	451.63	506.81	530.16
20.00°	557.32	533.88	467.42	401.02	373.10	396.39	461.60	529.08	557.32	533.88	467.42	401.02	373.10	396.39	461.60	529.08	557.32
22.50°	578.14	556.50	478.05	397.73	364.64	391.93	471.01	551.07	578.14	556.50	478.05	397.73	364.64	391.93	471.01	551.07	578.14
25.00°	595.27	568.97	488.33	393.62	356.19	387.42	479.21	566.81	595.27	568.97	488.33	393.62	356.19	387.42	479.21	566.81	595.27
27.50°	603.45	580.75	494.21	387.97	345.36	380.52	485.91	577.18	603.45	580.75	494.21	387.97	345.36	380.52	485.91	577.18	603.45
30.00°	607.76	582.84	497.69	380.94	334.47	373.46	489.17	580.59	607.76	582.84	497.69	380.94	334.47	373.46	489.17	580.59	607.76
32.50°	604.38	584.15	496.21	372.93	323.48	364.35	489.13	579.43	604.38	584.15	496.21	372.93	323.48	364.35	489.13	579.43	604.38
35.00°	598.53	577.55	492.71	364.23	312.29	354.91	484.24	573.72	598.53	577.55	492.71	364.23	312.29	354.91	484.24	573.72	598.53
37.50°	585.43	569.72	484.48	352.81	299.41	342.67	475.80	565.70	585.43	569.72	484.48	352.81	299.41	342.67	475.80	565.70	585.43
40.00°	570.77	554.98	474.84	339.93	286.36	330.09	464.62	551.63	570.77	554.98	474.84	339.93	286.36	330.09	464.62	551.63	570.77
42.50°	547.83	538.49	460.58	325.03	272.48	315.87	451.90	535.30	547.83	538.49	460.58	325.03	272.48	315.87	451.90	535.30	547.83
45.00°	523.85	515.70	445.42	309.35	258.64	300.98	435.97	514.35	523.85	515.70	445.42	309.35	258.64	300.98	435.97	514.35	523.85
47.50°	490.02	490.88	427.02	292.14	244.96	283.93	418.68	492.21	490.02	490.88	427.02	292.14	244.96	283.93	418.68	492.21	490.02
50.00°	455.55	460.90	408.29	274.49	230.67	266.42	398.41	462.02	455.55	460.90	408.29	274.49	230.67	266.42	398.41	462.02	455.55
52.50°	414.15	428.26	384.91	255.71	214.98	247.89	377.25	430.47	414.15	428.26	384.91	255.71	214.98	247.89	377.25	430.47	414.15
55.00°	372.69	390.49	361.23	236.72	199.05	229.16	353.39	393.47	372.69	390.49	361.23	236.72	199.05	229.16	353.39	393.47	372.69
57.50°	330.61	351.89	333.47	216.57	182.66	210.09	328.99	356.00	330.61	351.89	333.47	216.57	182.66	210.09	328.99	356.00	330.61
60.00°	289.02	312.09	305.52	196.30	166.33	190.73	300.88	316.71	289.02	312.09	305.52	196.30	166.33	190.73	300.88	316.71	289.02
62.50°	250.29	273.22	275.85	176.04	150.07	170.97	272.32	277.42	250.29	273.22	275.85	176.04	150.07	170.97	272.32	277.42	250.29
65.00°	212.47	235.37	245.93	155.78	132.89	151.31	241.61	238.65	212.47	235.37	245.93	155.78	132.89	151.31	241.61	238.65	212.47
67.50°	178.15	198.29	214.64	135.59	114.75	131.75	210.81	200.30	178.15	198.29	214.64	135.59	114.75	131.75	210.81	200.30	178.15
70.00°	145.10	161.88	183.15	115.37	96.98	111.85	180.34	165.31	145.10	161.88	183.15	115.37	96.98	111.85	180.34	165.31	145.10
72.50°	115.50	128.56	150.97	95.00	79.52	91.68	149.73	131.00	115.50	128.56	150.97	95.00	79.52	91.68	149.73	131.00	115.50
75.00°	87.34	97.32	119.08	74.87	62.66	72.18	117.62	99.87	87.34	97.32	119.08	74.87	62.66	72.18	117.62	99.87	87.34
77.50°	62.01	69.86	87.88	56.03	46.16	53.10	86.09	70.39	62.01	69.86	87.88	56.03	46.16	53.10	86.09	70.39	62.01
80.00°	39.91	44.32	58.72	37.97	31.87	36.49	57.84	46.03	39.91	44.32	58.72	37.97	31.87	36.49	57.84	46.03	39.91
82.50°	22.74	26.29	33.42	22.57	18.61	21.03	32.41	25.40	22.74	26.29	33.42	22.57	18.61	21.03	32.41	25.40	22.74
85.00°	10.83	11.12	15.14	10.29	10.53	11.74	17.18	13.41	10.83	11.12	15.14	10.29	10.53	11.74	17.18	13.41	10.83
87.50°	5.03	5.43	6.90	5.65	4.26	4.52	5.52	5.12	5.03	5.43	6.90	5.65	4.26	4.52	5.52	5.12	5.03
90.00°	2.12	2.25	2.31	2.47	2.43	2.46	3.28	3.18	2.12	2.25	2.31	2.47	2.43	2.46	3.28	3.18	2.12

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	1900	1900	1900	1900	1856	1856	1856	1856	1774	1774	1774	1698	1698	1698	1629	1629	1596
	1	1739	1664	1597	1536	1696	1628	1567	1511	1560	1510	1464	1498	1457	1419	1440	1407	1378
	2	1579	1447	1338	1247	1537	1417	1317	1232	1360	1276	1203	1308	1237	1176	1259	1201	1149
	3	1436	1266	1134	1030	1396	1240	1119	1020	1193	1088	1002	1148	1059	984	1107	1032	967
	4	1310	1116	974	865	1273	1095	962	859	1054	939	847	1017	916	835	982	895	824
	5	1201	992	846	738	1167	974	837	734	940	819	726	908	801	718	878	785	710
	6	1105	888	743	638	1074	873	735	635	844	721	630	817	707	624	791	694	618
	7	1022	801	659	559	993	788	653	556	763	641	552	740	630	548	718	619	544
	8	948	728	589	494	923	716	584	492	695	575	489	675	565	486	656	557	482
	9	883	665	531	440	860	655	527	439	636	519	436	619	511	434	603	504	432
	10	826	610	481	396	805	602	478	395	586	472	393	571	465	391	556	459	389

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	13.6 fc	18.4 ft
6.5 ft	9.7 fc	21.7 ft
7.5 ft	7.3 fc	25.1 ft
8.0 ft	6.4 fc	26.7 ft
10.0 ft	4.1 fc	33.4 ft
12.0 ft	2.9 fc	40.1 ft
14.0 ft	2.1 fc	46.8 ft
16.0 ft	1.6 fc	53.5 ft
20.0 ft	1.0 fc	66.9 ft
24.0 ft	0.7 fc	80.2 ft
28.0 ft	0.5 fc	93.6 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	14754	14754	14754
45.00°	26581	22601	13124
55.00°	23313	22596	12451
65.00°	18039	20879	11282
75.00°	12108	16507	8686
85.00°	4458	6231	4335

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	24.1	25.7	24.4	26.0	26.3	20.4	22.1	20.8	22.4	22.7
	3H	25.3	26.8	25.7	27.1	27.5	22.0	23.5	22.4	23.8	24.2
	4H	25.7	27.1	26.1	27.4	27.8	22.5	23.9	22.9	24.2	24.6
	6H	25.8	27.1	26.2	27.5	27.9	22.7	24.1	23.2	24.4	24.8
	8H	25.9	27.1	26.3	27.5	27.9	22.8	24.0	23.2	24.4	24.8
	12H	25.9	27.0	26.3	27.4	27.9	22.8	24.0	23.2	24.4	24.8
4H	2H	24.6	26.0	25.0	26.4	26.7	22.1	23.5	22.5	23.8	24.2
	3H	26.1	27.3	26.5	27.7	28.1	23.7	24.8	24.1	25.2	25.6
	4H	26.6	27.6	27.0	28.0	28.5	24.2	25.2	24.6	25.6	26.1
	6H	26.8	27.7	27.3	28.2	28.6	24.5	25.4	24.9	25.8	26.3
	8H	26.8	27.7	27.3	28.2	28.6	24.5	25.4	25.0	25.8	26.3
	12H	26.9	27.6	27.3	28.1	28.6	24.6	25.3	25.0	25.8	26.3
8H	4H	26.8	27.7	27.3	28.1	28.6	24.7	25.6	25.2	26.0	26.5
	6H	27.1	27.8	27.6	28.3	28.8	25.1	25.8	25.6	26.3	26.8
	8H	27.2	27.8	27.7	28.3	28.8	25.2	25.8	25.7	26.3	26.8
	12H	27.2	27.8	27.7	28.3	28.8	25.2	25.8	25.7	26.3	26.8
12H	4H	26.8	27.6	27.3	28.0	28.5	24.7	25.5	25.2	26.0	26.5
	6H	27.1	27.8	27.6	28.2	28.8	25.2	25.8	25.7	26.3	26.8
	8H	27.2	27.8	27.7	28.3	28.8	25.3	25.8	25.8	26.3	26.9

Corrected UGR values based on total output energy
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0