

## Indoor Distribution Test Report

### Spectrum Lighting Inc.

994 Jefferson Street  
Fall River, MA 02721  
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### Spectrum Lighting Photometric Lab

#### Luminaire

STL2 - 20L - 30HK - LW - xx - xx - MW

Track light for accent, display and general illumination.

#### Test Number

STL2-3

#### Test Date

2/18/25

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

## Summary of Results

### Power

Input Watts	20.31 W
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### Lumen Output

Output Lumens	1677
Efficacy	82.58 lm/W

### Luminous Dimensions

0° - 180° Size	0.12
90° - 270° Size	1.83
Height	0.03

### Spacing Criterion

Two luminaires, plane 0°	1.93
Two luminaires, plane 90°	1.13
Four luminaires	2.04

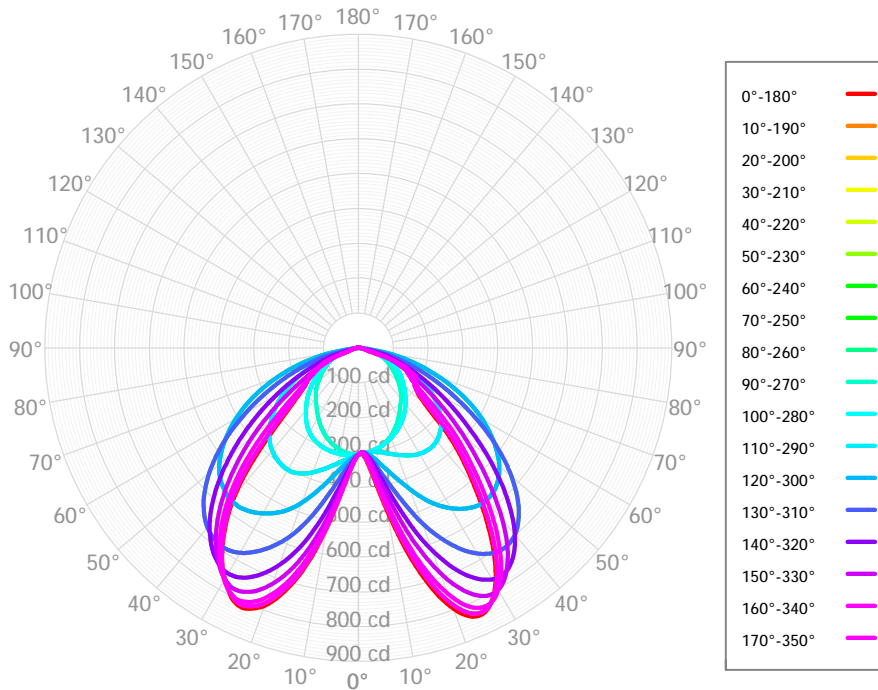
### Full Beam Angle

0° - 180°	87°
90° - 270°	N/A°

## IES File Header Contents

Keyword	Value
TEST	STL2-3
TESTLAB	Spectrum Lighting Photometric Lab.
MANUFAC	Spectrum Lighting
TESTDATE	2/18/25
ISSUEDATE	2/18/25
LUMCAT	STL2 - 20L - 30HK - LW - xx - xx - MW
LUMINAIRE	Track light for accent, display and general illumination.

### Candela Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0.00° - 10.00°	33.82	2.02%	90.00° - 100.00°	1.15	0.07%
10.00° - 20.00°	139.87	8.34%	100.00° - 110.00°	1.12	0.07%
20.00° - 30.00°	277.80	16.56%	100.00° - 120.00°	2.24	0.13%
30.00° - 40.00°	357.44	21.31%	120.00° - 130.00°	1.09	0.06%
40.00° - 50.00°	339.11	20.22%	130.00° - 140.00°	1.00	0.06%
50.00° - 60.00°	260.77	15.55%	140.00° - 150.00°	0.87	0.05%
60.00° - 70.00°	176.85	10.54%	150.00° - 160.00°	0.66	0.04%
70.00° - 80.00°	72.26	4.31%	160.00° - 170.00°	0.41	0.02%
80.00° - 90.00°	11.68	0.70%	170.00° - 180.00°	0.14	0.01%
0.00° - 90.00°	1669.61	99.55%	0.00° - 180.00°	1677.17	100.00%

## Candela Distributi

	0.00°	10.00°	20.00°	30.00°	40.00°	50.00°	60.00°	70.00°	80.00°	90.00°	100.00°	110.00°	120.00°	130.00°	140.00°	150.00°	160.00°	170.00°	180.00°	190.00°
0.00°	306.54	306.54	306.54	306.54	306.54	306.54	306.54	306.54	306.54	306.54	306.54	306.54	306.54	306.54	306.54	306.54	306.54	306.54	306.54	306.54
1.00°	303.38	302.53	302.54	301.72	302.08	304.61	304.26	304.76	304.99	306.57	306.37	308.42	308.07	311.47	312.61	314.63	314.06	313.76	313.28	313.76
2.00°	304.88	303.18	301.99	299.88	300.46	303.62	303.68	303.06	304.49	306.45	307.34	310.62	311.70	317.18	321.01	324.53	324.30	324.59	324.62	324.59
3.00°	311.36	308.58	306.15	301.01	301.09	304.36	303.52	302.05	303.26	305.85	308.06	313.30	316.13	323.98	331.12	337.28	338.05	338.78	339.62	338.78
4.00°	322.91	318.51	314.56	306.85	304.53	306.67	304.97	300.92	302.54	305.40	308.92	315.90	321.41	332.37	343.31	351.25	354.69	356.02	356.33	356.02
5.00°	339.17	333.23	328.05	315.66	312.26	311.56	306.65	300.25	301.18	303.97	308.97	318.12	326.89	341.78	356.54	368.32	373.39	376.50	377.42	376.50
6.00°	360.30	352.78	344.40	328.42	320.53	318.09	310.47	300.61	300.11	303.11	309.04	322.08	333.58	351.85	372.00	388.22	395.55	400.14	400.54	400.14
7.00°	384.02	375.20	364.64	343.97	332.58	326.07	314.18	300.73	298.93	302.13	309.87	325.04	340.00	363.62	389.47	409.86	420.86	426.50	429.02	426.50
8.00°	411.19	400.87	387.60	362.62	346.71	335.20	319.63	301.11	296.96	301.11	309.57	328.67	347.69	376.63	408.37	432.98	448.20	455.95	460.15	455.95
9.00°	441.81	429.80	413.31	382.72	362.57	347.18	325.98	302.17	295.62	299.60	309.60	332.53	355.86	390.51	428.40	459.37	478.32	488.05	492.93	488.05
10.00°	475.49	461.83	441.93	404.97	380.43	359.83	333.39	303.99	294.20	297.35	309.60	336.21	364.54	406.10	450.98	487.71	510.49	521.58	526.70	521.58
11.00°	509.58	495.01	473.36	431.08	399.88	373.22	340.87	305.34	292.92	295.23	308.78	340.46	374.05	421.37	474.47	515.09	541.24	554.41	560.29	554.41
12.00°	546.49	530.54	505.92	458.27	421.35	388.22	349.37	306.84	291.07	292.72	308.69	344.47	383.67	438.33	498.10	542.16	572.48	587.13	594.97	587.13
13.00°	585.00	567.32	539.58	486.86	444.21	403.36	358.16	307.86	289.37	290.74	308.20	348.28	393.89	456.38	521.18	570.04	602.72	618.85	627.43	618.85
14.00°	621.29	603.73	574.26	516.69	467.99	420.86	367.55	311.05	287.51	288.51	307.91	353.08	405.19	474.12	544.65	596.97	631.76	648.50	657.23	648.50
15.00°	656.19	638.39	608.36	547.77	492.98	438.23	377.08	313.33	285.47	286.09	307.32	357.52	416.19	492.40	568.03	621.93	658.38	677.49	686.34	677.49
16.00°	689.66	671.43	640.65	578.75	518.98	456.29	387.10	315.77	283.63	283.13	306.06	362.14	427.66	510.61	589.66	645.24	683.84	702.48	711.27	702.48
17.00°	720.99	702.82	671.03	606.65	545.11	475.85	397.76	318.31	281.76	280.15	305.28	366.63	438.90	527.84	609.69	667.11	706.11	724.35	733.75	724.35
18.00°	750.40	731.88	700.20	635.29	570.63	495.40	408.13	320.95	279.35	276.88	304.48	370.94	450.16	545.41	628.79	686.64	726.19	744.94	754.60	744.94
19.00°	774.60	758.20	727.21	661.95	594.99	516.01	419.13	323.74	277.26	274.11	303.57	375.64	461.08	561.64	646.86	704.46	744.06	763.11	772.72	763.11
20.00°	796.05	780.76	750.91	687.12	617.75	535.10	431.01	326.62	274.62	270.73	301.99	380.15	472.26	576.64	663.12	720.60	760.18	778.41	788.43	778.41
21.00°	815.16	800.07	772.22	711.47	639.49	553.75	442.89	329.81	272.23	267.14	300.84	384.42	483.56	590.66	678.14	735.46	774.09	790.86	798.65	790.86
22.00°	828.30	816.01	791.30	732.44	660.80	571.43	454.96	332.39	269.75	263.41	299.37	388.39	493.18	603.76	692.13	747.56	784.38	799.20	807.05	799.20
23.00°	838.18	828.02	805.36	750.89	681.34	588.03	466.16	334.86	266.67	259.49	297.84	391.73	502.33	615.70	704.40	758.77	792.42	805.67	813.67	805.67
24.00°	842.79	834.81	816.41	767.00	699.11	604.14	477.75	337.74	264.43	255.62	295.57	394.64	511.07	627.85	715.78	766.54	797.67	809.29	816.98	809.29
25.00°	843.40	837.64	823.42	780.86	716.11	619.51	488.45	340.56	262.24	251.48	293.51	397.65	519.19	637.96	725.43	772.75	801.46	810.09	815.74	810.09
26.00°	839.59	836.33	826.49	791.44	729.86	634.22	497.77	343.00	258.77	248.08	291.73	399.97	525.61	648.16	733.74	777.11	801.27	806.41	811.33	806.41
27.00°	830.61	830.51	826.52	799.49	742.28	648.48	507.72	345.49	255.85	243.86	289.52	402.04	532.22	657.00	739.93	778.77	796.40	799.49	803.62	799.49
28.00°	818.45	819.78	821.84	803.80	753.18	660.73	515.64	347.87	252.85	239.38	286.14	404.01	538.09	665.52	744.68	777.59	790.12	790.65	792.16	790.65
29.00°	803.70	807.70	814.30	804.96	761.09	671.54	524.10	349.89	249.61	234.63	283.60	404.46	543.65	673.15	746.97	772.51	781.18	778.55	779.92	778.55
30.00°	786.02	791.40	802.37	802.49	767.73	681.47	531.55	351.03	247.06	230.68	280.32	404.16	548.66	679.20	747.91	766.02	769.51	765.92	766.85	765.92
31.00°	765.05	772.51	788.23	796.84	770.71	689.99	538.17	352.33	243.79	226.15	276.42	404.01	553.10	684.07	746.23	758.24	757.25	752.34	752.84	752.34
32.00°	742.40	751.60	771.43	788.03	771.89	696.84	544.95	353.75	240.02	221.46	273.00	403.10	557.59	687.92	742.54	748.10	744.55	737.83	736.29	737.83
33.00°	717.60	728.86	753.26	776.81	770.57	703.31	550.59	353.70	236.73	217.31	269.17	402.27	561.13	690.66	737.38	736.24	730.37	719.73	717.88	719.73
34.00°	691.10	703.14	731.84	763.02	767.01	707.72	555.82	354.49	233.39	213.01	264.29	400.19	564.49	691.34	730.75	724.08	713.56	701.14	697.62	701.14
35.00°	663.60	677.56	708.30	746.95	760.22	710.16	560.35	354.73	229.89	209.06	259.83	398.73	567.04	690.70	722.69	711.17	695.28	681.36	676.66	681.36
36.00°	634.17	649.28	684.10	730.14	751.54	710.86	564.43	354.52	226.23	205.25	254.70	396.25	569.29	689.70	713.49	695.92	676.04	659.81	654.18	659.81
37.00°	605.92	621.19	659.26	710.69	741.27	710.60	567.65	353.96	222.28	201.16	250.02	394.26	570.98	687.23	702.55	679.92	656.08	637.59	630.76	637.59
38.00°	576.46	591.93	632.25	689.40	728.75	708.32	569.98	352.42	218.60	198.24	244.17	391.63	570.27	683.82	690.54	661.95	634.94	613.81	605.83	613.81
39.00°	547.22	563.27	604.25	666.26	714.92	704.46	570.57	350.97	214.70	194.14	239.61	388.08	570.41	678.96	677.88	643.69	612.49	588.61	578.89	588.61
40.00°	518.07	535.04	577.02	643.09	698.90	699.66	570.75	349.35	210.96	190.11	234.57	384.64	569.55	673.41	664.18	624.13	589.34	561.51	548.25	561.51
41.00°	491.29	507.23	548.97	617.96	681.95	692.78	570.65	347.04	207.31	186.30	229.23	380.84	567.49	666.60	649.14	603.79	563.94	532.06	517.34	532.06
42.00°	464.57	479.87	522.03	592.48	663.10	684.11	569.10	344.25	203.15	182.80	223.67	377.33	565.17	658.71	633.13	582.64	537.62	500.69	483.47	500.69
43.00°	438.59	453.03	495.34	566.63	642.70	674.02	566.90	341.14	199.26	179.25	218.05	371.95	561.95	649.14	615.47	560.32	510.76	467.62	446.40	467.62

### 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%	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	1995	1995	1995	1995	1948	1948	1948	1948	1859	1859	1859	1779	1779	1779	1704	1704	1670
	1	1838	1765	1699	1640	1793	1726	1667	1612	1654	1605	1560	1588	1548	1511	1527	1495	1463
	2	1679	1549	1441	1351	1635	1517	1418	1334	1457	1374	1302	1401	1332	1271	1350	1293	1264
	3	1534	1364	1233	1129	1492	1338	1216	1118	1287	1183	1098	1240	1152	1078	1197	1122	1097
	4	1404	1209	1067	958	1366	1187	1054	951	1144	1028	937	1105	1004	923	1068	982	960
	5	1290	1079	932	823	1255	1060	922	818	1024	902	808	990	883	799	959	865	846
	6	1189	969	821	715	1157	953	813	712	922	798	705	893	783	698	866	768	752
	7	1100	876	730	628	1071	862	723	625	835	711	620	810	699	615	787	687	673
	8	1021	795	653	556	995	784	648	554	761	638	550	739	628	546	719	618	606
	9	951	727	589	496	927	716	585	494	696	576	491	678	568	488	660	560	549
	10	889	667	534	446	867	658	530	444	641	523	442	624	516	440	609	509	500

### Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	10.1 fc	10.5 ft
6.5 ft	7.3 fc	12.4 ft
7.5 ft	5.4 fc	14.3 ft
8.0 ft	4.8 fc	15.3 ft
10.0 ft	3.1 fc	19.1 ft
12.0 ft	2.1 fc	22.9 ft
14.0 ft	1.6 fc	26.7 ft
16.0 ft	1.2 fc	30.5 ft
20.0 ft	0.8 fc	38.2 ft
24.0 ft	0.5 fc	45.8 ft
28.0 ft	0.4 fc	53.4 ft

### Average Luminaire Luminance [cd/m<sup>2</sup>]

	0.00°	45.00°	90.00°
0.00°	14926	14926	14926
45.00°	21002	35934	11570
55.00°	12411	28143	10641
65.00°	13253	19043	9952
75.00°	2443	10461	8867
85.00°	1509	1505	4215

### 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		Viewing C0-180					Viewing C90-270				
2H	2H	19.7	21.3	20.1	21.6	21.9	22.0	23.6	22.4	23.9	24.2
	3H	21.7	23.1	22.1	23.4	23.8	22.5	23.9	22.9	24.3	24.6
	4H	21.7	23.0	22.1	23.4	23.8	22.7	24.0	23.1	24.4	24.7
	6H	21.7	22.9	22.1	23.3	23.7	22.8	24.0	23.2	24.4	24.8
	8H	21.7	22.8	22.1	23.2	23.6	22.8	23.9	23.2	24.3	24.7
	12H	21.6	22.8	22.1	23.1	23.6	22.8	23.9	23.2	24.3	24.7
4H	2H	21.4	22.8	21.8	23.1	23.5	22.9	24.2	23.3	24.6	24.9
	3H	23.0	24.1	23.4	24.5	24.9	24.7	25.8	25.1	26.2	26.6
	4H	23.0	24.0	23.4	24.4	24.9	25.1	26.1	25.5	26.5	27.0
	6H	23.0	23.8	23.5	24.3	24.8	25.2	26.1	25.7	26.5	27.0
	8H	23.0	23.8	23.4	24.2	24.7	25.2	26.0	25.7	26.5	26.9
	12H	23.0	23.7	23.5	24.2	24.6	25.2	25.9	25.7	26.4	26.9
8H	4H	23.6	24.4	24.1	24.8	25.3	25.2	26.0	25.7	26.5	27.0
	6H	23.6	24.2	24.1	24.7	25.2	25.5	26.2	26.0	26.7	27.2
	8H	23.5	24.1	24.1	24.7	25.1	25.5	26.1	26.0	26.6	27.1
	12H	23.5	24.1	24.1	24.6	25.1	25.5	26.0	26.0	26.5	27.1
12H	4H	23.6	24.3	24.1	24.8	25.3	25.2	25.9	25.7	26.4	26.9
	6H	23.6	24.2	24.1	24.7	25.2	25.5	26.1	26.0	26.5	27.1
	8H	23.6	24.1	24.1	24.6	25.2	25.5	26.0	26.0	26.5	27.1

Corrected UGR values based on total output energy  
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0