

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

SLO3IND8 11L 35HK DW xx xx MW
Specline Linear Pendant, 1.8" aperture x 8' Long, Matte White Refl

Test Number

SP-01372_1

Test Date

6/3/2022

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

Summary of Results

Power

Input Watts	68 W
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Lumen Output

Output Lumens	4806
Efficacy	70.68 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°	1.25
Four luminaires	1.37

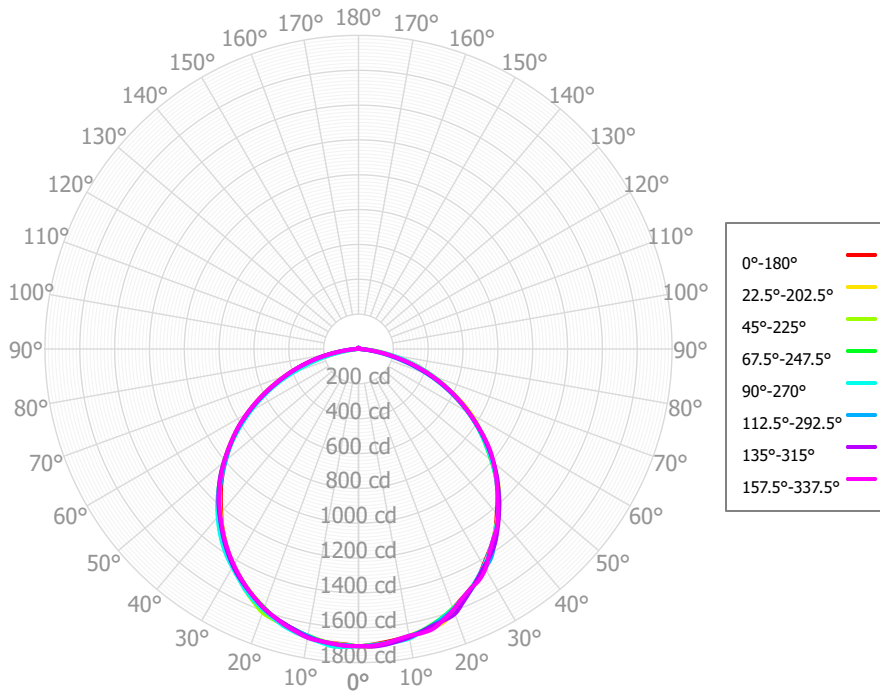
Full Beam Angle

0° - 180°	111°
90° - 270°	111°

IES File Header Contents

Keyword	Value
TEST	SP-01372_1
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	6/3/2022
ISSUEDATE	11/2/2022
LUMCAT	SLO3IND8 11L 35HK 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. 90 CRI
LAMPCAT	N/A
OTHER	Reference project SL473
OTHER	11L designation for Spectrum linear product indicates 600 Source Lm/Ft.
OTHER	CCT Output Multipliers: 40HK x 1.01, 30HK x 0.98, 27HK x 0.95
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°	163.92	3.41%	90.00° - 100.00°	6.27	0.13%
10.00° - 20.00°	463.27	9.64%	100.00° - 110.00°	5.82	0.12%
20.00° - 30.00°	700.48	14.58%	100.00° - 120.00°	11.44	0.24%
30.00° - 40.00°	842.81	17.54%	120.00° - 130.00°	5.05	0.11%
40.00° - 50.00°	870.43	18.11%	130.00° - 140.00°	4.23	0.09%
50.00° - 60.00°	777.89	16.19%	140.00° - 150.00°	3.57	0.07%
60.00° - 70.00°	579.01	12.05%	150.00° - 160.00°	2.59	0.05%
70.00° - 80.00°	308.36	6.42%	160.00° - 170.00°	1.62	0.03%
80.00° - 90.00°	64.38	1.34%	170.00° - 180.00°	0.57	0.01%
0.00° - 90.00°	4770.55	99.26%	0.00° - 180.00°	4805.91	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°	1706.22	1706.22	1706.22	1706.22	1706.22	1706.22	1706.22	1706.22	1706.22	1706.22	1706.22	1706.22	1706.22	1706.22	1706.22	1706.22	1706.22
2.50°	1699.50	1710.40	1701.03	1704.21	1704.87	1700.76	1705.63	1706.12	1697.76	1699.83	1701.88	1704.59	1712.68	1702.04	1710.65	1705.87	1699.50
5.00°	1690.92	1699.28	1696.87	1698.95	1703.38	1700.64	1697.56	1698.69	1695.24	1696.43	1698.40	1700.33	1713.56	1696.20	1705.69	1698.14	1690.92
7.50°	1682.24	1687.74	1689.75	1690.46	1695.81	1690.75	1690.31	1691.59	1692.63	1691.60	1686.05	1688.53	1698.13	1685.57	1694.17	1683.66	1682.24
10.00°	1673.21	1672.65	1679.62	1676.90	1687.55	1672.61	1679.19	1683.75	1673.66	1677.83	1673.15	1671.94	1682.84	1673.58	1682.18	1671.98	1673.21
12.50°	1663.53	1658.63	1660.30	1659.62	1665.28	1654.42	1656.68	1662.35	1654.27	1662.28	1656.72	1658.76	1667.88	1660.85	1663.38	1671.52	1663.53
15.00°	1652.18	1653.23	1639.57	1637.53	1642.35	1636.20	1634.21	1640.26	1635.24	1639.71	1640.53	1647.20	1648.75	1641.85	1645.04	1662.34	1652.18
17.50°	1630.01	1641.45	1615.76	1612.69	1615.79	1612.68	1611.82	1612.95	1614.91	1614.41	1627.57	1617.06	1621.90	1620.23	1633.92	1628.54	1630.01
20.00°	1587.29	1599.58	1588.07	1583.97	1588.64	1586.58	1585.14	1584.32	1582.70	1581.62	1611.21	1580.47	1594.39	1593.11	1618.41	1592.50	1587.29
22.50°	1550.52	1558.57	1553.97	1553.61	1555.41	1551.85	1551.37	1549.82	1549.84	1547.68	1572.43	1549.54	1565.96	1564.36	1572.15	1551.83	1550.52
25.00°	1522.50	1520.23	1519.55	1520.11	1521.00	1513.95	1516.56	1513.85	1513.65	1511.33	1531.92	1520.02	1531.03	1527.92	1526.47	1518.95	1522.50
27.50°	1484.02	1483.09	1484.71	1485.66	1479.99	1476.34	1480.43	1473.22	1475.91	1473.75	1484.04	1481.71	1489.09	1489.98	1483.23	1498.12	1484.02
30.00°	1433.70	1448.79	1443.30	1440.86	1437.79	1438.80	1439.15	1431.18	1432.71	1434.26	1438.43	1442.04	1448.44	1454.42	1441.95	1458.30	1433.70
32.50°	1387.72	1405.39	1395.36	1393.87	1391.32	1393.01	1392.87	1385.91	1387.63	1388.87	1399.43	1398.42	1408.90	1419.15	1406.59	1395.35	1387.72
35.00°	1345.53	1346.16	1349.31	1347.38	1344.30	1345.91	1343.81	1338.31	1337.85	1336.52	1355.97	1354.51	1362.97	1361.25	1365.13	1343.25	1345.53
37.50°	1293.55	1293.44	1304.69	1300.95	1295.83	1292.90	1292.62	1286.74	1285.05	1284.09	1303.03	1304.34	1312.88	1302.58	1310.33	1301.32	1293.55
40.00°	1234.83	1249.37	1251.96	1246.50	1243.99	1239.38	1241.74	1235.58	1226.69	1231.60	1247.75	1253.65	1257.68	1250.38	1254.00	1246.67	1234.83
42.50°	1181.11	1198.38	1194.36	1191.54	1185.63	1181.34	1191.03	1184.96	1169.90	1178.90	1188.65	1195.15	1199.98	1197.30	1195.17	1182.87	1181.11
45.00°	1129.97	1140.14	1134.63	1127.68	1126.08	1122.92	1134.41	1129.51	1115.36	1126.04	1129.90	1136.13	1136.56	1134.46	1136.08	1124.52	1129.97
47.50°	1069.32	1075.52	1073.94	1063.45	1064.79	1058.40	1075.21	1069.14	1058.08	1063.97	1071.58	1073.30	1071.01	1071.54	1076.67	1069.25	1069.32
50.00°	1005.05	1005.76	1010.53	995.02	1000.13	994.24	1008.88	1006.63	997.79	996.88	1009.42	1008.67	1004.72	1008.12	1012.90	1011.16	1005.05
52.50°	939.18	938.94	946.24	927.27	931.57	933.01	940.24	942.44	935.34	934.20	943.57	935.76	938.24	942.74	944.84	951.91	939.18
55.00°	872.87	873.93	877.17	863.61	863.85	869.96	874.62	876.59	871.06	873.38	876.44	864.21	864.49	870.21	875.86	879.45	872.87
57.50°	800.78	809.97	807.00	798.65	796.88	798.37	809.67	809.72	804.21	803.91	808.34	796.84	789.54	797.72	806.20	803.05	800.78
60.00°	727.65	746.50	735.49	728.56	729.40	726.99	734.18	738.35	735.66	731.88	734.67	728.01	716.06	725.34	735.25	732.33	727.65
62.50°	654.30	674.45	663.79	657.95	661.58	656.24	657.33	664.91	662.79	662.24	657.76	655.92	642.71	652.13	663.54	662.78	654.30
65.00°	580.93	599.42	592.25	585.93	592.54	585.11	581.97	591.45	587.75	593.06	584.74	580.31	566.23	577.29	588.18	590.82	580.93
67.50°	508.92	525.78	520.72	515.83	522.86	513.06	506.78	517.98	514.11	519.20	513.38	498.67	489.29	500.66	511.18	518.58	508.92
70.00°	436.95	452.47	452.89	449.53	452.28	440.76	439.51	446.22	440.98	444.78	433.52	418.07	404.37	421.41	433.38	444.51	436.95
72.50°	365.07	379.71	384.57	380.67	381.36	368.01	372.38	374.88	370.34	370.69	350.92	338.83	320.75	341.54	355.32	370.34	365.07
75.00°	293.59	307.04	309.67	307.82	314.38	296.66	307.02	302.95	300.34	296.71	275.81	262.40	247.95	260.98	281.43	294.33	293.59
77.50°	225.70	234.92	236.77	235.40	248.48	227.15	241.19	230.93	233.13	226.30	202.32	188.80	175.77	189.32	208.43	219.55	225.70
80.00°	159.34	162.85	176.77	163.46	178.31	162.66	172.41	164.84	166.41	156.82	133.33	121.13	106.58	125.64	141.81	158.12	159.34
82.50°	101.03	107.72	117.67	103.52	107.35	103.44	107.43	99.12	107.95	97.62	64.92	58.18	48.03	72.47	76.05	98.92	101.03
85.00°	50.02	54.34	62.33	54.50	59.88	57.69	57.73	58.98	50.22	43.98	35.00	24.68	23.68	26.52	40.31	52.40	50.02
87.50°	24.06	29.98	19.12	25.71	14.76	22.79	19.26	20.92	27.67	22.16	7.57	9.03	6.28	8.64	6.66	14.37	24.06
90.00°	5.66	8.42	10.76	11.46	9.88	8.02	12.02	13.10	6.54	5.10	6.36	4.53	5.37	5.82	6.24	8.81	5.66
92.50°	5.70	7.16	5.16	5.77	6.22	5.65	6.69	6.25	5.18	5.50	5.21	5.10	4.94	5.03	5.82	4.72	5.70
95.00°	5.61	6.09	5.34	4.74	6.40	5.16	5.37	6.00	4.03	5.55	4.93	5.28	5.33	5.05	5.46	4.50	5.61
97.50°	5.25	5.87	5.20	5.55	6.53	5.58	4.82	5.90	4.54	4.68	4.71	5.33	5.91	5.22	5.12	4.55	5.25
100.00°	5.32	5.77	4.56	7.10	6.17	5.94	5.45	6.48	5.01	4.30	4.96	5.08	6.77	5.43	4.87	5.09	5.32

SLO3IND8 11L 35HK 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%	0%
	pcc	80%	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	10%
	pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
	0	5713	5713	5713	5713	5576	5576	5576	5576	5320	5320	5320	5086	5086	5086	4872	4872	4872
	1	5231	5007	4806	4625	5097	4894	4712	4546	4684	4534	4396	4491	4368	4255	4312	4214	4123
	2	4759	4368	4045	3774	4630	4274	3977	3726	4098	3849	3633	3936	3728	3545	3785	3614	3461
	3	4340	3837	3449	3139	4218	3759	3399	3108	3610	3302	3048	3473	3211	2991	3346	3125	2935
	4	3973	3400	2981	2660	3860	3334	2942	2639	3209	2868	2599	3093	2798	2559	2984	2731	2521
	5	3654	3038	2608	2290	3550	2982	2578	2276	2876	2520	2247	2777	2465	2219	2685	2412	2192
	6	3374	2735	2306	1999	3279	2687	2282	1988	2597	2236	1967	2513	2192	1947	2434	2149	1927
	7	3128	2480	2059	1764	3043	2439	2040	1757	2362	2003	1741	2289	1967	1726	2221	1932	1711
	8	2912	2263	1854	1573	2835	2228	1838	1567	2161	1808	1555	2099	1778	1544	2040	1750	1532
	9	2720	2076	1682	1415	2650	2046	1669	1411	1989	1643	1401	1935	1619	1392	1884	1595	1383
	10	2550	1916	1536	1283	2487	1890	1525	1279	1839	1504	1272	1792	1483	1264	1748	1463	1257

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	56.4 fc	16.0 ft
6.5 ft	40.4 fc	18.9 ft
7.5 ft	30.3 fc	21.9 ft
8.0 ft	26.7 fc	23.3 ft
10.0 ft	17.1 fc	29.2 ft
12.0 ft	11.8 fc	35.0 ft
14.0 ft	8.7 fc	40.8 ft
16.0 ft	6.7 fc	46.6 ft
20.0 ft	4.3 fc	58.3 ft
24.0 ft	3.0 fc	70.0 ft
28.0 ft	2.2 fc	81.6 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	15305	15305	15305
45.00°	14334	14393	14285
55.00°	13650	13718	13509
65.00°	12330	12570	12576
75.00°	10175	10732	10895
85.00°	5148	6415	6162

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	21.2	22.8	21.6	23.2	23.5	21.2	22.8	21.5	23.1	23.4
	3H	23.0	24.4	23.3	24.8	25.1	22.8	24.3	23.2	24.6	25.0
	4H	23.6	24.9	24.0	25.3	25.7	23.4	24.8	23.8	25.1	25.5
	6H	23.9	25.2	24.4	25.6	26.0	23.8	25.0	24.2	25.4	25.8
	8H	24.0	25.2	24.5	25.6	26.1	23.8	25.0	24.3	25.4	25.8
	12H	24.1	25.2	24.5	25.6	26.1	23.8	25.0	24.3	25.4	25.8
4H	2H	21.9	23.2	22.3	23.6	24.0	21.8	23.1	22.2	23.5	23.9
	3H	23.8	24.9	24.2	25.4	25.8	23.7	24.8	24.1	25.2	25.6
	4H	24.5	25.5	25.0	26.0	26.4	24.3	25.4	24.8	25.8	26.2
	6H	25.0	25.9	25.5	26.4	26.8	24.8	25.7	25.2	26.1	26.6
	8H	25.1	26.0	25.6	26.4	26.9	24.9	25.7	25.3	26.2	26.6
	12H	25.2	25.9	25.7	26.4	26.9	24.9	25.7	25.4	26.2	26.6
8H	4H	24.8	25.6	25.2	26.1	26.6	24.6	25.4	25.1	25.9	26.4
	6H	25.4	26.1	25.9	26.6	27.0	25.1	25.8	25.6	26.3	26.8
	8H	25.5	26.2	26.1	26.7	27.2	25.2	25.9	25.8	26.4	26.9
	12H	25.6	26.2	26.2	26.7	27.3	25.3	25.9	25.8	26.4	27.0
12H	4H	24.8	25.5	25.3	26.0	26.5	24.6	25.4	25.1	25.9	26.4
	6H	25.4	26.0	25.9	26.5	27.0	25.2	25.8	25.7	26.3	26.8
	8H	25.6	26.2	26.1	26.7	27.2	25.3	25.9	25.8	26.4	26.9

Corrected UGR values based on total output energy
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0