

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

SLO3IND8 20L 35K DW xx xx MW
Specline Linear Pendant, 1.8" aperture x 8' Long, Matte White Refl

Test Number

SP-01434_2

Test Date

6/3/2022

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

Summary of Results

Power

Input Watts	120 W
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Lumen Output

Output Lumens	9629
Efficacy	80.24 lm/W

Luminous Dimensions

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

Spacing Criterion

Two luminaires, plane 0°	1.25
Two luminaires, plane 90°	1.25
Four luminaires	1.37

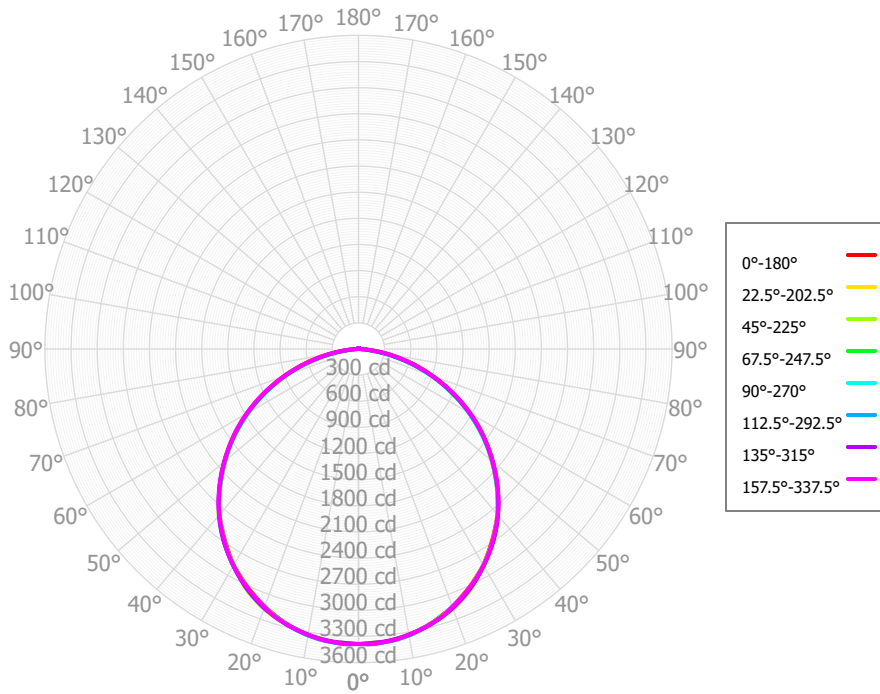
Full Beam Angle

0° - 180°	112°
90° - 270°	111°

IES File Header Contents

Keyword	Value
TEST	SP-01434_2
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	6/3/2022
ISSUEDATE	11/10/2022
LUMCAT	SLO3IND8 20L 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, or 8' module for continuous ROW
OTHER	111 Degree Beam Angle
LAMP	N/A, Min. 80 CRI
LAMPCAT	N/A
OTHER	Reference project SL473
OTHER	20L designation for Spectrum linear product indicates 1204 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°	325.78	3.38%	90.00° - 100.00°	8.75	0.09%
10.00° - 20.00°	919.47	9.55%	100.00° - 110.00°	7.44	0.08%
20.00° - 30.00°	1393.67	14.47%	100.00° - 120.00°	14.88	0.15%
30.00° - 40.00°	1681.28	17.46%	120.00° - 130.00°	6.95	0.07%
40.00° - 50.00°	1737.86	18.05%	130.00° - 140.00°	5.84	0.06%
50.00° - 60.00°	1560.16	16.20%	140.00° - 150.00°	4.89	0.05%
60.00° - 70.00°	1173.99	12.19%	150.00° - 160.00°	3.60	0.04%
70.00° - 80.00°	644.00	6.69%	160.00° - 170.00°	2.25	0.02%
80.00° - 90.00°	144.77	1.50%	170.00° - 180.00°	0.78	0.01%
0.00° - 90.00°	9580.98	99.50%	0.00° - 180.00°	9628.91	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°	3387.53	3387.53	3387.53	3387.53	3387.53	3387.53	3387.53	3387.53	3387.53	3387.53	3387.53	3387.53	3387.53	3387.53	3387.53	3387.53	3387.53
2.50°	3380.64	3383.40	3378.77	3384.54	3391.85	3389.95	3379.27	3392.34	3380.64	3383.40	3378.77	3384.54	3391.85	3389.95	3379.27	3392.34	3380.64
5.00°	3377.55	3375.80	3376.43	3377.50	3379.35	3381.69	3371.93	3377.73	3377.55	3375.80	3376.43	3377.50	3379.35	3381.69	3371.93	3377.73	3377.55
7.50°	3358.02	3357.16	3353.89	3358.34	3362.50	3365.83	3355.43	3362.53	3358.02	3357.16	3353.89	3358.34	3362.50	3365.83	3355.43	3362.53	3358.02
10.00°	3333.82	3331.82	3330.00	3338.76	3333.11	3339.66	3330.05	3331.49	3333.82	3331.82	3330.00	3338.76	3333.11	3339.66	3330.05	3331.49	3333.82
12.50°	3296.27	3298.53	3297.93	3299.95	3300.82	3305.36	3299.00	3300.05	3296.27	3298.53	3297.93	3299.95	3300.82	3305.36	3299.00	3300.05	3296.27
15.00°	3255.59	3261.02	3264.07	3260.55	3261.66	3262.81	3263.12	3259.63	3255.59	3261.02	3264.07	3260.55	3261.66	3262.81	3263.12	3259.63	3255.59
17.50°	3203.00	3209.22	3221.62	3208.27	3216.84	3214.56	3217.90	3217.40	3203.00	3209.22	3221.62	3208.27	3216.84	3214.56	3217.90	3217.40	3203.00
20.00°	3148.28	3151.06	3175.09	3155.15	3160.38	3158.13	3165.88	3152.35	3148.28	3151.06	3175.09	3155.15	3160.38	3158.13	3165.88	3152.35	3148.28
22.50°	3082.75	3086.43	3113.41	3092.69	3098.23	3096.88	3104.11	3087.00	3082.75	3086.43	3113.41	3092.69	3098.23	3096.88	3104.11	3087.00	3082.75
25.00°	3015.86	3019.41	3044.83	3028.76	3026.22	3026.72	3036.27	3019.31	3015.86	3019.41	3044.83	3028.76	3026.22	3026.72	3036.27	3019.31	3015.86
27.50°	2940.80	2944.77	2955.65	2953.36	2950.66	2952.13	2958.00	2949.79	2940.80	2944.77	2955.65	2953.36	2950.66	2952.13	2958.00	2949.79	2940.80
30.00°	2865.02	2867.84	2867.80	2875.65	2869.86	2870.97	2874.09	2869.94	2865.02	2867.84	2867.80	2875.65	2869.86	2870.97	2874.09	2869.94	2865.02
32.50°	2771.92	2779.13	2783.34	2785.10	2784.81	2787.09	2786.75	2786.64	2771.92	2779.13	2783.34	2785.10	2784.81	2787.09	2786.75	2786.64	2771.92
35.00°	2678.07	2687.49	2695.54	2692.22	2694.25	2692.80	2697.85	2687.82	2678.07	2687.49	2695.54	2692.22	2694.25	2692.80	2697.85	2687.82	2678.07
37.50°	2580.27	2585.49	2600.71	2589.54	2594.77	2594.82	2597.22	2588.38	2580.27	2585.49	2600.71	2589.54	2594.77	2594.82	2597.22	2588.38	2580.27
40.00°	2481.93	2481.51	2496.19	2484.40	2485.40	2486.77	2492.15	2486.77	2481.93	2481.51	2496.19	2484.40	2485.40	2486.77	2492.15	2486.77	2481.93
42.50°	2365.35	2370.56	2374.44	2370.68	2370.15	2375.84	2376.31	2380.85	2365.35	2370.56	2374.44	2370.68	2370.15	2375.84	2376.31	2380.85	2365.35
45.00°	2248.23	2258.65	2253.86	2254.45	2249.31	2257.60	2257.02	2262.64	2248.23	2258.65	2253.86	2254.45	2249.31	2257.60	2257.02	2262.64	2248.23
47.50°	2123.64	2137.28	2135.11	2131.07	2127.40	2137.72	2134.05	2141.54	2123.64	2137.28	2135.11	2131.07	2127.40	2137.72	2134.05	2141.54	2123.64
50.00°	1998.98	2014.97	2011.32	2005.39	2004.59	2010.17	2010.13	2013.42	1998.98	2014.97	2011.32	2005.39	2004.59	2010.17	2010.13	2013.42	1998.98
52.50°	1873.72	1886.81	1880.85	1874.30	1873.57	1881.23	1881.08	1885.45	1873.72	1886.81	1880.85	1874.30	1873.57	1881.23	1881.08	1885.45	1873.72
55.00°	1747.18	1758.33	1749.26	1740.51	1736.69	1744.41	1751.01	1757.80	1747.18	1758.33	1749.26	1740.51	1736.69	1744.41	1751.01	1757.80	1747.18
57.50°	1613.15	1622.93	1616.40	1601.46	1599.40	1606.57	1615.98	1625.34	1613.15	1622.93	1616.40	1601.46	1599.40	1606.57	1615.98	1625.34	1613.15
60.00°	1477.36	1487.33	1478.39	1462.21	1461.85	1465.92	1480.24	1484.63	1477.36	1487.33	1478.39	1462.21	1461.85	1465.92	1480.24	1484.63	1477.36
62.50°	1333.37	1346.17	1335.25	1322.61	1319.01	1325.05	1333.47	1342.30	1333.37	1346.17	1335.25	1322.61	1319.01	1325.05	1333.47	1342.30	1333.37
65.00°	1189.60	1204.79	1191.49	1181.13	1173.37	1179.07	1185.54	1197.63	1189.60	1204.79	1191.49	1181.13	1173.37	1179.07	1185.54	1197.63	1189.60
67.50°	1046.65	1059.90	1047.21	1036.94	1027.90	1032.85	1041.30	1053.03	1046.65	1059.90	1047.21	1036.94	1027.90	1032.85	1041.30	1053.03	1046.65
70.00°	904.46	915.05	901.71	889.91	882.50	885.72	897.28	908.54	904.46	915.05	901.71	889.91	882.50	885.72	897.28	908.54	904.46
72.50°	764.50	770.56	755.32	739.35	734.07	738.65	755.66	764.90	764.50	770.56	755.32	739.35	734.07	738.65	755.66	764.90	764.50
75.00°	625.31	627.02	611.55	592.56	584.54	593.58	614.13	622.20	625.31	627.02	611.55	592.56	584.54	593.58	614.13	622.20	625.31
77.50°	488.07	490.06	469.42	449.88	439.77	449.13	475.31	485.63	488.07	490.06	469.42	449.88	439.77	449.13	475.31	485.63	488.07
80.00°	356.30	355.60	334.36	311.99	296.49	313.53	337.46	354.85	356.30	355.60	334.36	311.99	296.49	313.53	337.46	354.85	356.30
82.50°	235.99	233.66	203.15	178.56	181.95	183.16	217.28	232.37	235.99	233.66	203.15	178.56	181.95	183.16	217.28	232.37	235.99
85.00°	133.33	124.08	111.30	88.84	74.56	98.19	103.53	116.79	133.33	124.08	111.30	88.84	74.56	98.19	103.53	116.79	133.33
87.50°	61.82	62.48	37.46	33.99	36.63	23.95	54.11	50.45	61.82	62.48	37.46	33.99	36.63	23.95	54.11	50.45	61.82
90.00°	15.88	14.71	13.06	10.14	12.00	14.71	10.46	18.96	15.88	14.71	13.06	10.14	12.00	14.71	10.46	18.96	15.88
92.50°	9.39	9.93	7.42	8.06	8.40	7.15	8.23	7.23	9.39	9.93	7.42	8.06	8.40	7.15	8.23	7.23	9.39
95.00°	5.68	6.59	6.08	7.01	7.73	7.65	6.35	7.38	5.68	6.59	6.08	7.01	7.73	7.65	6.35	7.38	5.68
97.50°	5.62	7.04	6.12	6.58	7.01	8.10	6.36	7.22	5.62	7.04	6.12	6.58	7.01	8.10	6.36	7.22	5.62
100.00°	5.87	7.25	6.95	6.76	6.28	8.36	6.31	6.91	5.87	7.25	6.95	6.76	6.28	8.36	6.31	6.91	5.87

SLO3IND8 20L 35K 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%	20%	0%
	pcc	80%	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	10%	0%
	pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	30%
	0	11452	11452	11452	11452	11180	11180	11180	11180	10672	10672	10672	10208	10208	10208	9781	9781	9781	9581
	1	10474	10020	9612	9245	10208	9796	9426	9090	9378	9073	8794	8994	8746	8516	8640	8441	8255	8257
	2	9523	8733	8080	7532	9265	8547	7947	7438	8197	7692	7256	7874	7453	7083	7576	7228	6917	7065
	3	8680	7667	6883	6259	8437	7511	6784	6199	7216	6594	6082	6944	6414	5969	6691	6244	5860	6102
	4	7945	6791	5945	5299	7720	6659	5870	5259	6411	5724	5181	6180	5586	5104	5966	5454	5030	5331
	5	7305	6065	5199	4560	7098	5954	5141	4532	5744	5027	4477	5548	4918	4424	5365	4814	4371	4708
	6	6745	5460	4597	3978	6557	5365	4550	3958	5186	4460	3918	5019	4373	3879	4862	4289	3841	4197
	7	6253	4949	4104	3511	6083	4869	4066	3496	4716	3993	3467	4572	3922	3438	4438	3855	3409	3775
	8	5821	4515	3694	3130	5666	4446	3664	3119	4315	3604	3096	4191	3546	3074	4075	3490	3052	3421
	9	5438	4144	3351	2815	5298	4084	3325	2806	3970	3276	2789	3863	3228	2772	3762	3181	2754	3121
	10	5097	3823	3060	2552	4971	3771	3038	2544	3672	2997	2531	3579	2956	2517	3490	2917	2503	2864

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	112.0 fc	16.3 ft
6.5 ft	80.2 fc	19.2 ft
7.5 ft	60.2 fc	22.2 ft
8.0 ft	52.9 fc	23.7 ft
10.0 ft	33.9 fc	29.6 ft
12.0 ft	23.5 fc	35.5 ft
14.0 ft	17.3 fc	41.4 ft
16.0 ft	13.2 fc	47.4 ft
20.0 ft	8.5 fc	59.2 ft
24.0 ft	5.9 fc	71.0 ft
28.0 ft	4.3 fc	82.9 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	30386	30386	30386
45.00°	28520	28591	28533
55.00°	27323	27356	27159
65.00°	25249	25289	24904
75.00°	21672	21195	20258
85.00°	13722	11455	7674

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	23.7	25.3	24.1	25.6	26.0	23.6	25.2	24.0	25.5	25.9
	3H	25.5	26.9	25.8	27.3	27.6	25.3	26.8	25.7	27.1	27.5
	4H	26.1	27.5	26.5	27.8	28.2	25.9	27.3	26.3	27.7	28.1
	6H	26.5	27.8	27.0	28.2	28.6	26.3	27.6	26.7	27.9	28.3
	8H	26.7	27.9	27.1	28.3	28.7	26.4	27.6	26.8	28.0	28.4
	12H	26.7	27.9	27.2	28.3	28.7	26.4	27.6	26.8	27.9	28.4
4H	2H	24.3	25.7	24.7	26.0	26.4	24.2	25.6	24.6	26.0	26.4
	3H	26.3	27.4	26.7	27.9	28.3	26.2	27.3	26.6	27.7	28.2
	4H	27.1	28.1	27.5	28.5	29.0	26.9	27.9	27.3	28.4	28.8
	6H	27.6	28.5	28.1	29.0	29.4	27.4	28.3	27.8	28.7	29.2
	8H	27.8	28.6	28.2	29.1	29.6	27.5	28.3	27.9	28.8	29.2
	12H	27.9	28.6	28.4	29.1	29.6	27.5	28.3	28.0	28.7	29.2
8H	4H	27.3	28.2	27.8	28.6	29.1	27.2	28.0	27.7	28.5	29.0
	6H	28.0	28.7	28.5	29.2	29.7	27.7	28.4	28.2	28.9	29.4
	8H	28.2	28.8	28.7	29.4	29.9	27.9	28.5	28.4	29.0	29.5
	12H	28.4	28.9	28.9	29.4	30.0	28.0	28.5	28.5	29.0	29.6
12H	4H	27.3	28.1	27.8	28.6	29.1	27.2	28.0	27.7	28.5	28.9
	6H	28.0	28.7	28.6	29.1	29.7	27.8	28.4	28.3	28.9	29.4
	8H	28.3	28.8	28.8	29.3	29.9	28.0	28.5	28.5	29.0	29.6

Corrected UGR values based on total output energy
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0