

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P520651

Luminaire Tested: **8WSLA-125-L830-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-125-L830-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

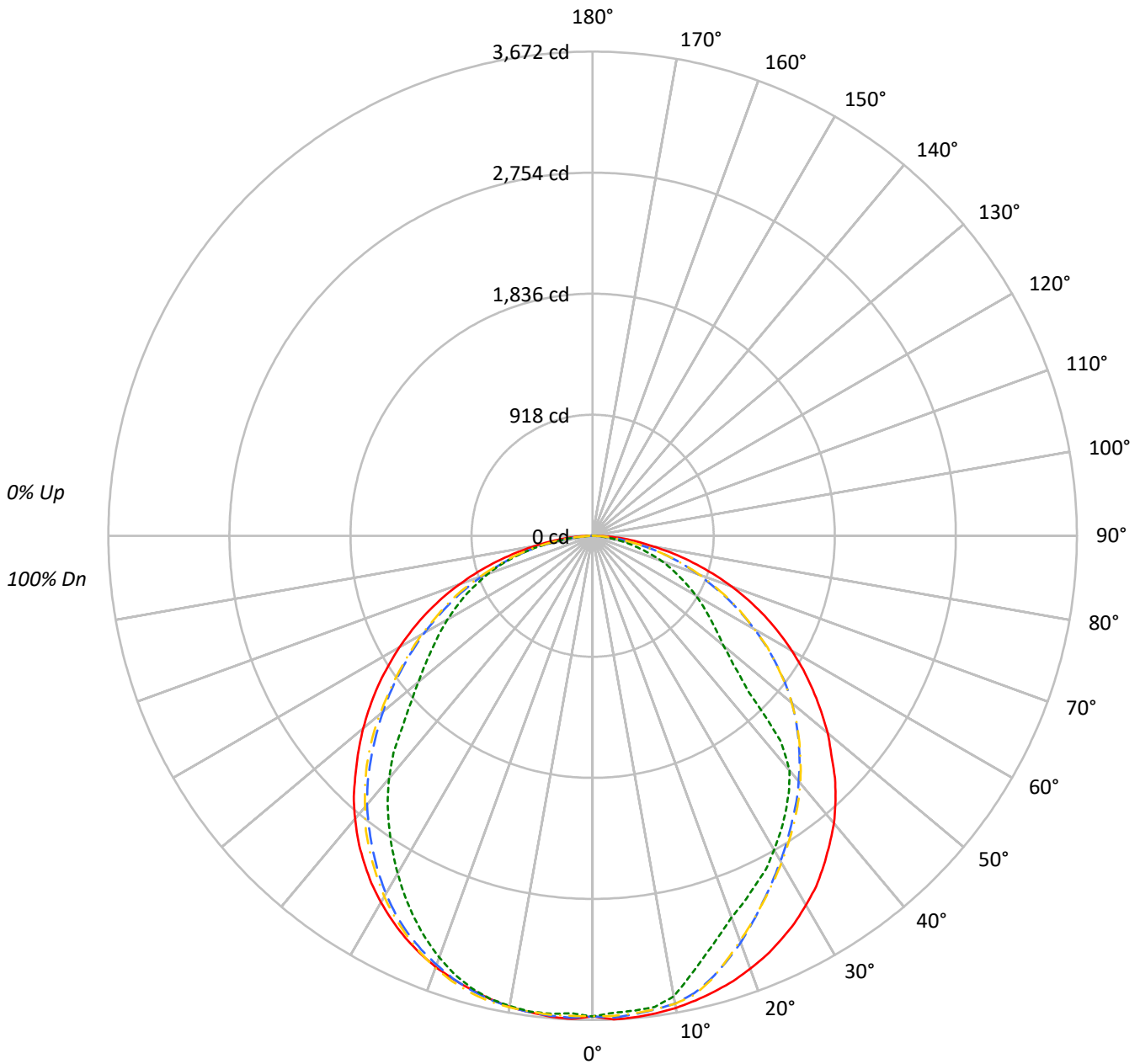
Lumens per Lamp: N/A
Luminaire Lumens: 9777.0 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 78.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84			84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70			70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60			60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51			51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44			44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39			39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34			34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31			31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28			28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25			25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9807	9807	9807	9807
5°	9903	9766	9887	9829
10°	9937	9692	9910	9895
15°	9968	9178	9925	9892
20°	10006	8819	9966	9743
25°	10038	8673	9985	9498
30°	10049	8548	9976	9186
35°	10033	8382	9930	8844
40°	10000	8160	9842	8434
45°	9889	6340	9666	7738
50°	9741	5427	9503	7219
55°	9568	5082	9320	6944
60°	9387	4851	9103	6829
65°	9163	4594	8852	6748
70°	8799	4369	8430	6646
75°	8193	3842	7806	6323
80°	7273	3212	6817	5363
85°	6882	2294	6036	3078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.3	3.5
10°-20°	987.7	10.1
20°-30°	1475.9	15.1
30°-40°	1756.8	18.0
40°-50°	1756.1	18.0
50°-60°	1511.1	15.5
60°-70°	1137.3	11.6
70°-80°	648.1	6.6
80°-90°	157.7	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2809.9	28.7
0°-40°	4566.7	46.7
0°-60°	7833.8	80.1
0°-90°	9777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9777.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3644	3644	3644	3644	3644	
5°	3666	3615	3660	3639	3666	349
15°	3578	3295	3562	3551	3578	1011
25°	3381	2921	3363	3199	3381	1559
35°	3054	2552	3023	2692	3054	1911
45°	2598	1666	2540	2033	2598	2001
55°	2039	1083	1986	1480	2039	1823
65°	1439	722	1390	1060	1439	1421
75°	788	370	751	608	788	834
85°	223	74	196	100	223	243
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3644.5	3644.5	3644.5	3644.5	3644.5	3644.5	3644.5	3644.5	3644.5	3644.5	3644.5
2.5°	3671.9	3638.7	3658.2	3652.4	3621.1	3632.8	3644.5	3632.8	3668.0	3636.7	3658.2
5°	3666.1	3630.9	3642.6	3630.9	3615.2	3619.1	3636.7	3625.0	3660.2	3626.9	3654.3
7.5°	3654.3	3611.3	3623.0	3617.2	3603.5	3605.4	3623.0	3613.3	3644.5	3613.3	3644.5
10°	3636.7	3591.8	3601.5	3576.1	3546.8	3568.3	3603.5	3593.7	3626.9	3591.8	3626.9
12.5°	3609.3	3564.4	3554.6	3470.5	3417.7	3458.8	3566.3	3566.3	3597.6	3564.4	3601.5
15°	3578.1	3529.2	3476.4	3349.3	3294.6	3335.6	3484.2	3535.0	3562.4	3529.2	3566.3
17.5°	3540.9	3484.2	3382.5	3233.9	3183.1	3224.2	3376.7	3488.1	3523.3	3488.1	3521.4
20°	3494.0	3427.5	3282.8	3112.7	3079.5	3116.6	3269.1	3431.4	3480.3	3437.3	3460.8
22.5°	3443.2	3363.0	3171.4	3018.9	3003.2	3026.7	3165.5	3361.0	3425.6	3380.6	3396.2
25°	3380.6	3286.7	3059.9	2932.8	2921.1	2934.8	3063.8	3278.9	3363.0	3316.1	3321.9
27.5°	3314.1	3212.4	2954.3	2860.5	2848.8	2854.6	2962.2	3187.0	3290.6	3243.7	3233.9
30°	3233.9	3124.5	2848.8	2762.7	2751.0	2772.5	2864.4	3093.2	3210.5	3163.6	3134.2
32.5°	3153.8	3028.6	2745.1	2678.7	2655.2	2674.8	2762.7	2995.4	3122.5	3073.6	3024.7
35°	3054.1	2927.0	2637.6	2571.1	2551.6	2573.1	2661.1	2893.7	3022.8	2973.9	2907.4
37.5°	2950.4	2819.4	2539.8	2479.2	2444.0	2469.5	2557.4	2788.2	2919.2	2868.3	2786.2
40°	2846.8	2706.0	2430.3	2367.8	2322.8	2360.0	2449.9	2676.7	2801.8	2754.9	2661.1
42.5°	2725.6	2592.6	2322.8	2234.8	2107.7	2227.0	2334.5	2565.3	2680.6	2635.6	2522.2
45°	2598.5	2471.4	2209.4	1996.3	1665.9	2015.8	2217.2	2447.9	2539.8	2496.8	2373.6
47.5°	2453.8	2346.3	2094.0	1769.5	1448.8	1789.0	2098.0	2336.5	2406.9	2360.0	2223.1
50°	2326.7	2221.1	1972.8	1577.9	1296.3	1599.4	1970.9	2211.4	2270.0	2227.0	2074.5
52.5°	2182.0	2090.1	1841.8	1407.8	1182.9	1429.3	1837.9	2082.3	2129.2	2078.4	1925.9
55°	2039.3	1957.2	1703.0	1257.2	1083.2	1276.8	1699.1	1949.4	1986.5	1927.9	1769.5
57.5°	1894.6	1820.3	1560.3	1122.3	991.3	1143.8	1570.0	1812.5	1837.9	1763.6	1618.9
60°	1744.1	1681.5	1415.6	1003.0	901.4	1020.6	1411.7	1675.6	1691.3	1611.1	1472.3
62.5°	1593.5	1536.8	1270.9	893.5	809.5	905.3	1280.7	1530.9	1540.7	1464.5	1321.7
65°	1439.0	1386.3	1130.1	778.2	721.5	797.7	1139.9	1380.4	1390.2	1304.1	1175.1
67.5°	1278.7	1235.7	979.6	690.2	637.4	696.1	999.1	1227.9	1233.7	1149.7	1032.4
70°	1118.4	1081.2	846.6	594.4	555.3	596.3	860.3	1059.7	1071.5	981.5	887.7
72.5°	954.2	924.8	717.6	494.7	459.5	494.7	725.4	905.3	913.1	838.8	746.9
75°	788.0	766.4	586.6	396.9	369.5	395.0	590.5	750.8	750.8	680.4	608.1
77.5°	627.6	612.0	449.7	305.0	285.5	301.1	451.7	594.4	590.5	535.7	479.0
80°	469.3	457.5	322.6	220.9	207.3	215.1	322.6	439.9	439.9	400.8	332.4
82.5°	336.3	322.6	213.1	144.7	136.9	140.8	209.2	307.0	312.8	283.5	224.9
85°	222.9	191.6	115.4	80.2	74.3	76.3	109.5	177.9	195.5	164.2	117.3
87.5°	97.8	64.5	29.3	11.7	5.9	7.8	23.5	56.7	74.3	48.9	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3644.5	3644.5	3644.5	3644.5	3644.5	3644.5
2.5°	3656.3	3625.0	3636.7	3644.5	3636.7	3671.9
5°	3652.4	3638.7	3636.7	3646.5	3630.9	3666.1
7.5°	3646.5	3638.7	3636.7	3640.6	3621.1	3654.3
10°	3632.8	3621.1	3625.0	3630.9	3605.4	3636.7
12.5°	3607.4	3595.7	3597.6	3617.2	3582.0	3609.3
15°	3564.4	3550.7	3564.4	3585.9	3554.6	3578.1
17.5°	3507.7	3486.2	3509.6	3542.9	3519.4	3540.9
20°	3435.3	3402.1	3427.5	3488.1	3466.6	3494.0
22.5°	3347.3	3306.3	3331.7	3419.7	3413.8	3443.2
25°	3247.6	3198.8	3233.9	3341.5	3353.2	3380.6
27.5°	3136.2	3081.4	3128.4	3255.5	3282.8	3314.1
30°	3015.0	2956.3	3011.0	3159.6	3200.7	3233.9
32.5°	2889.8	2825.3	2887.9	3052.1	3110.8	3153.8
35°	2758.8	2692.3	2762.7	2940.7	3011.0	3054.1
37.5°	2618.0	2553.5	2629.8	2823.3	2907.4	2950.4
40°	2473.4	2401.0	2487.0	2684.5	2796.0	2846.8
42.5°	2324.8	2234.8	2340.4	2553.5	2674.8	2725.6
45°	2158.6	2033.4	2176.2	2414.7	2541.8	2598.5
47.5°	1992.4	1867.2	2011.9	2266.1	2403.0	2453.8
50°	1832.0	1724.5	1839.9	2103.8	2262.2	2326.7
52.5°	1685.4	1597.4	1695.2	1945.5	2117.5	2182.0
55°	1548.5	1480.1	1560.3	1789.0	1965.0	2039.3
57.5°	1419.5	1376.5	1431.2	1640.4	1824.2	1894.6
60°	1298.3	1268.9	1308.0	1493.8	1658.0	1744.1
62.5°	1179.0	1163.4	1192.7	1339.3	1503.6	1593.5
65°	1063.6	1059.7	1075.4	1204.4	1341.3	1439.0
67.5°	948.3	946.3	956.1	1061.7	1182.9	1278.7
70°	832.9	844.7	838.8	907.2	1024.5	1118.4
72.5°	715.6	733.2	723.4	766.4	879.9	954.2
75°	584.6	608.1	588.5	637.4	707.8	788.0
77.5°	449.7	475.1	451.7	494.7	570.9	627.6
80°	322.6	346.1	326.5	359.8	426.2	469.3
82.5°	203.3	220.9	205.3	238.5	305.0	336.3
85°	89.9	99.7	103.6	129.0	187.7	222.9
87.5°	3.9	2.0	3.9	25.4	66.5	97.8
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)