

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: P520630

Luminaire Tested: **8WSLA-100-L835-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520630
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-100-L835-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

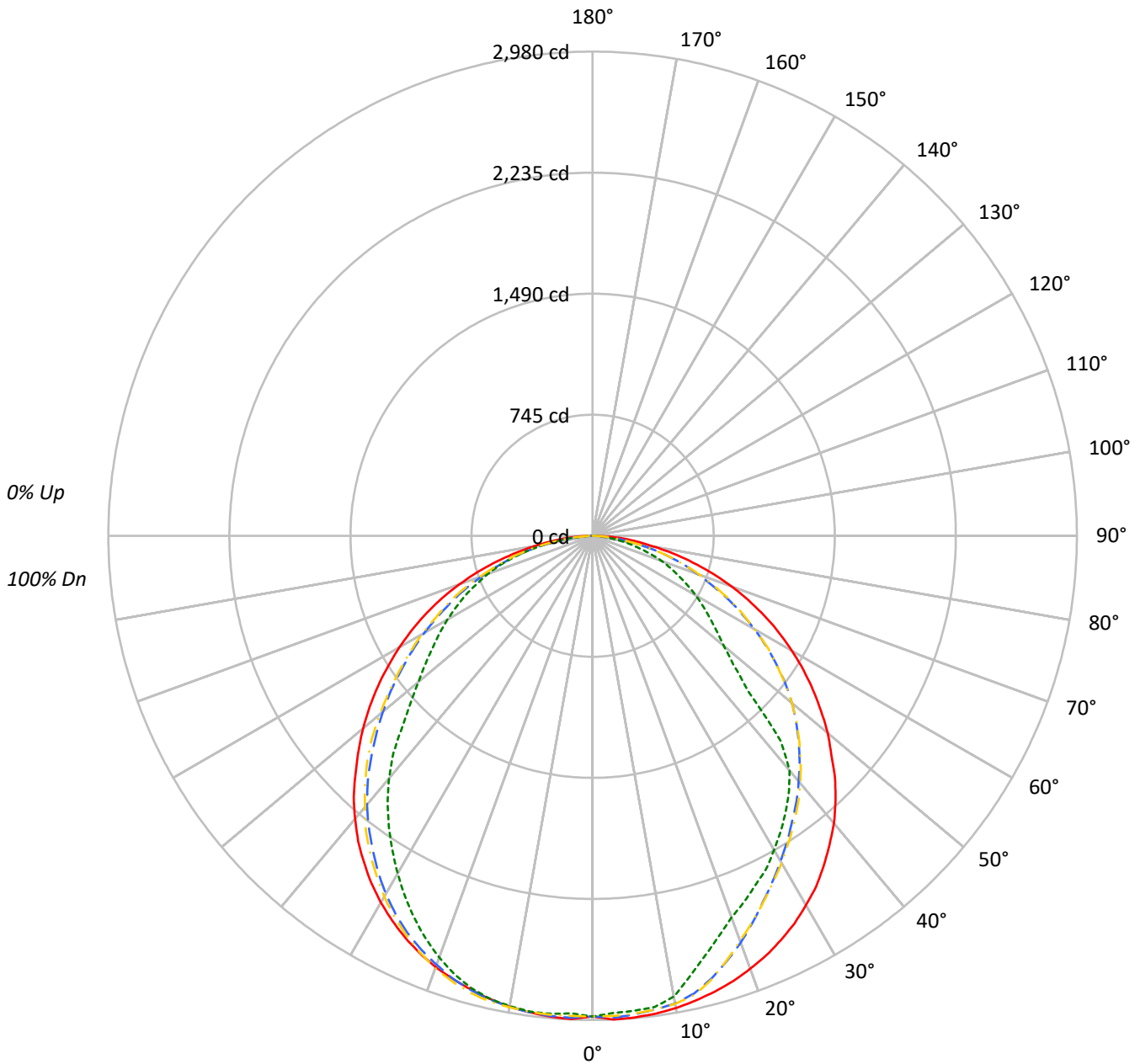
Lumens per Lamp: N/A
Luminaire Lumens: 7936.0 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 63.4
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									
RC	80									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																			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70																			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60																			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7961	7961	7961	7961
5°	8038	7927	8025	7978
10°	8066	7867	8044	8031
15°	8091	7450	8056	8029
20°	8122	7158	8090	7908
25°	8147	7040	8105	7709
30°	8157	6939	8098	7456
35°	8144	6804	8060	7179
40°	8117	6623	7989	6846
45°	8027	5146	7846	6281
50°	7906	4405	7714	5860
55°	7766	4125	7565	5636
60°	7619	3937	7388	5543
65°	7438	3729	7185	5477
70°	7142	3546	6843	5394
75°	6650	3119	6336	5132
80°	5903	2607	5534	4353
85°	5585	1862	4900	2498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.1	3.5
10°-20°	801.7	10.1
20°-30°	1198.0	15.1
30°-40°	1426.0	18.0
40°-50°	1425.4	18.0
50°-60°	1226.5	15.5
60°-70°	923.2	11.6
70°-80°	526.1	6.6
80°-90°	128.0	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°	2280.8	28.7
0°-40°	3706.8	46.7
0°-60°	6358.7	80.1
0°-90°	7936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7936.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2958	2958	2958	2958	2958	
5°	2976	2934	2971	2954	2976	283
15°	2904	2674	2892	2882	2904	821
25°	2744	2371	2730	2596	2744	1265
35°	2479	2071	2454	2185	2479	1551
45°	2109	1352	2062	1650	2109	1624
55°	1655	879	1612	1201	1655	1480
65°	1168	586	1128	860	1168	1153
75°	640	300	609	494	640	677
85°	181	60	159	81	181	197
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°	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3
2.5°	2980.5	2953.5	2969.4	2964.6	2939.2	2948.8	2958.3	2948.8	2977.3	2951.9	2969.4
5°	2975.7	2947.2	2956.7	2947.2	2934.5	2937.6	2951.9	2942.4	2971.0	2944.0	2966.2
7.5°	2966.2	2931.3	2940.8	2936.1	2925.0	2926.5	2940.8	2932.9	2958.3	2932.9	2958.3
10°	2951.9	2915.4	2923.4	2902.7	2878.9	2896.4	2925.0	2917.0	2944.0	2915.4	2944.0
12.5°	2929.7	2893.2	2885.3	2817.0	2774.2	2807.5	2894.8	2894.8	2920.2	2893.2	2923.4
15°	2904.3	2864.6	2821.8	2718.6	2674.2	2707.5	2828.1	2869.4	2891.6	2864.6	2894.8
17.5°	2874.2	2828.1	2745.6	2625.0	2583.7	2617.1	2740.9	2831.3	2859.9	2831.3	2858.3
20°	2836.1	2782.1	2664.7	2526.6	2499.6	2529.8	2653.6	2785.3	2825.0	2790.1	2809.1
22.5°	2794.8	2729.7	2574.2	2450.4	2437.7	2456.8	2569.4	2728.2	2780.5	2744.0	2756.7
25°	2744.0	2667.8	2483.7	2380.6	2371.1	2382.2	2486.9	2661.5	2729.7	2691.7	2696.4
27.5°	2690.1	2607.5	2398.0	2321.9	2312.3	2317.1	2404.4	2586.9	2671.0	2632.9	2625.0
30°	2625.0	2536.1	2312.3	2242.5	2233.0	2250.5	2325.0	2510.7	2606.0	2567.9	2544.1
32.5°	2559.9	2458.4	2228.2	2174.3	2155.2	2171.1	2242.5	2431.4	2534.5	2494.9	2455.2
35°	2479.0	2375.8	2140.9	2087.0	2071.1	2088.6	2160.0	2348.8	2453.6	2413.9	2360.0
37.5°	2394.9	2288.5	2061.6	2012.4	1983.8	2004.5	2075.9	2263.1	2369.5	2328.2	2261.6
40°	2310.8	2196.5	1972.7	1921.9	1885.4	1915.6	1988.6	2172.7	2274.3	2236.2	2160.0
42.5°	2212.4	2104.4	1885.4	1814.0	1710.8	1807.7	1894.9	2082.2	2175.9	2139.4	2047.3
45°	2109.2	2006.0	1793.4	1620.4	1352.2	1636.3	1799.7	1987.0	2061.6	2026.7	1926.7
47.5°	1991.8	1904.5	1699.7	1436.3	1176.0	1452.2	1702.9	1896.5	1953.7	1915.6	1804.5
50°	1888.6	1802.9	1601.3	1280.8	1052.2	1298.2	1599.8	1795.0	1842.6	1807.7	1683.9
52.5°	1771.2	1696.6	1495.0	1142.7	960.2	1160.1	1491.8	1690.2	1728.3	1687.0	1563.3
55°	1655.3	1588.6	1382.3	1020.5	879.2	1036.3	1379.2	1582.3	1612.5	1564.8	1436.3
57.5°	1537.9	1477.6	1266.5	911.0	804.6	928.4	1274.4	1471.2	1491.8	1431.5	1314.1
60°	1415.7	1364.9	1149.0	814.2	731.6	828.4	1145.9	1360.1	1372.8	1307.7	1195.1
62.5°	1293.5	1247.4	1031.6	725.3	657.0	734.8	1039.5	1242.7	1250.6	1188.7	1072.9
65°	1168.1	1125.2	917.3	631.6	585.6	647.5	925.3	1120.5	1128.4	1058.6	953.8
67.5°	1037.9	1003.0	795.1	560.2	517.4	565.0	811.0	996.7	1001.4	933.2	838.0
70°	907.8	877.6	687.2	482.5	450.7	484.1	698.3	860.2	869.7	796.7	720.5
72.5°	774.5	750.7	582.5	401.5	373.0	401.5	588.8	734.8	741.2	680.8	606.3
75°	639.6	622.1	476.1	322.2	300.0	320.6	479.3	609.4	609.4	552.3	493.6
77.5°	509.4	496.7	365.0	247.6	231.7	244.4	366.6	482.5	479.3	434.9	388.8
80°	380.9	371.4	261.9	179.3	168.2	174.6	261.9	357.1	357.1	325.3	269.8
82.5°	273.0	261.9	173.0	117.4	111.1	114.3	169.8	249.2	253.9	230.1	182.5
85°	180.9	155.5	93.6	65.1	60.3	61.9	88.9	144.4	158.7	133.3	95.2
87.5°	79.4	52.4	23.8	9.5	4.8	6.3	19.0	46.0	60.3	39.7	12.7
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°	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3
2.5°	2967.8	2942.4	2951.9	2958.3	2951.9	2980.5
5°	2964.6	2953.5	2951.9	2959.9	2947.2	2975.7
7.5°	2959.9	2953.5	2951.9	2955.1	2939.2	2966.2
10°	2948.8	2939.2	2942.4	2947.2	2926.5	2951.9
12.5°	2928.1	2918.6	2920.2	2936.1	2907.5	2929.7
15°	2893.2	2882.1	2893.2	2910.7	2885.3	2904.3
17.5°	2847.2	2829.7	2848.8	2875.8	2856.7	2874.2
20°	2788.5	2761.5	2782.1	2831.3	2813.9	2836.1
22.5°	2717.0	2683.7	2704.3	2775.8	2771.0	2794.8
25°	2636.1	2596.4	2625.0	2712.3	2721.8	2744.0
27.5°	2545.6	2501.2	2539.3	2642.5	2664.7	2690.1
30°	2447.2	2399.6	2444.1	2564.7	2598.0	2625.0
32.5°	2345.7	2293.3	2344.1	2477.4	2525.0	2559.9
35°	2239.3	2185.4	2242.5	2386.9	2444.1	2479.0
37.5°	2125.1	2072.7	2134.6	2291.7	2360.0	2394.9
40°	2007.6	1948.9	2018.7	2179.0	2269.5	2310.8
42.5°	1887.0	1814.0	1899.7	2072.7	2171.1	2212.4
45°	1752.1	1650.5	1766.4	1960.0	2063.2	2109.2
47.5°	1617.2	1515.6	1633.1	1839.4	1950.5	1991.8
50°	1487.1	1399.8	1493.4	1707.7	1836.2	1888.6
52.5°	1368.0	1296.6	1376.0	1579.1	1718.8	1771.2
55°	1257.0	1201.4	1266.5	1452.2	1595.0	1655.3
57.5°	1152.2	1117.3	1161.7	1331.5	1480.7	1537.9
60°	1053.8	1030.0	1061.7	1212.5	1345.8	1415.7
62.5°	957.0	944.3	968.1	1087.1	1220.4	1293.5
65°	863.4	860.2	872.9	977.6	1088.7	1168.1
67.5°	769.7	768.1	776.1	861.8	960.2	1037.9
70°	676.1	685.6	680.8	736.4	831.6	907.8
72.5°	580.9	595.1	587.2	622.1	714.2	774.5
75°	474.5	493.6	477.7	517.4	574.5	639.6
77.5°	365.0	385.7	366.6	401.5	463.4	509.4
80°	261.9	280.9	265.0	292.0	346.0	380.9
82.5°	165.1	179.3	166.6	193.6	247.6	273.0
85°	73.0	80.9	84.1	104.7	152.4	180.9
87.5°	3.2	1.6	3.2	20.6	54.0	79.4
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)