

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: P520635

Luminaire Tested: **8WSLA-100-L840-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-100-L840-UPL8-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

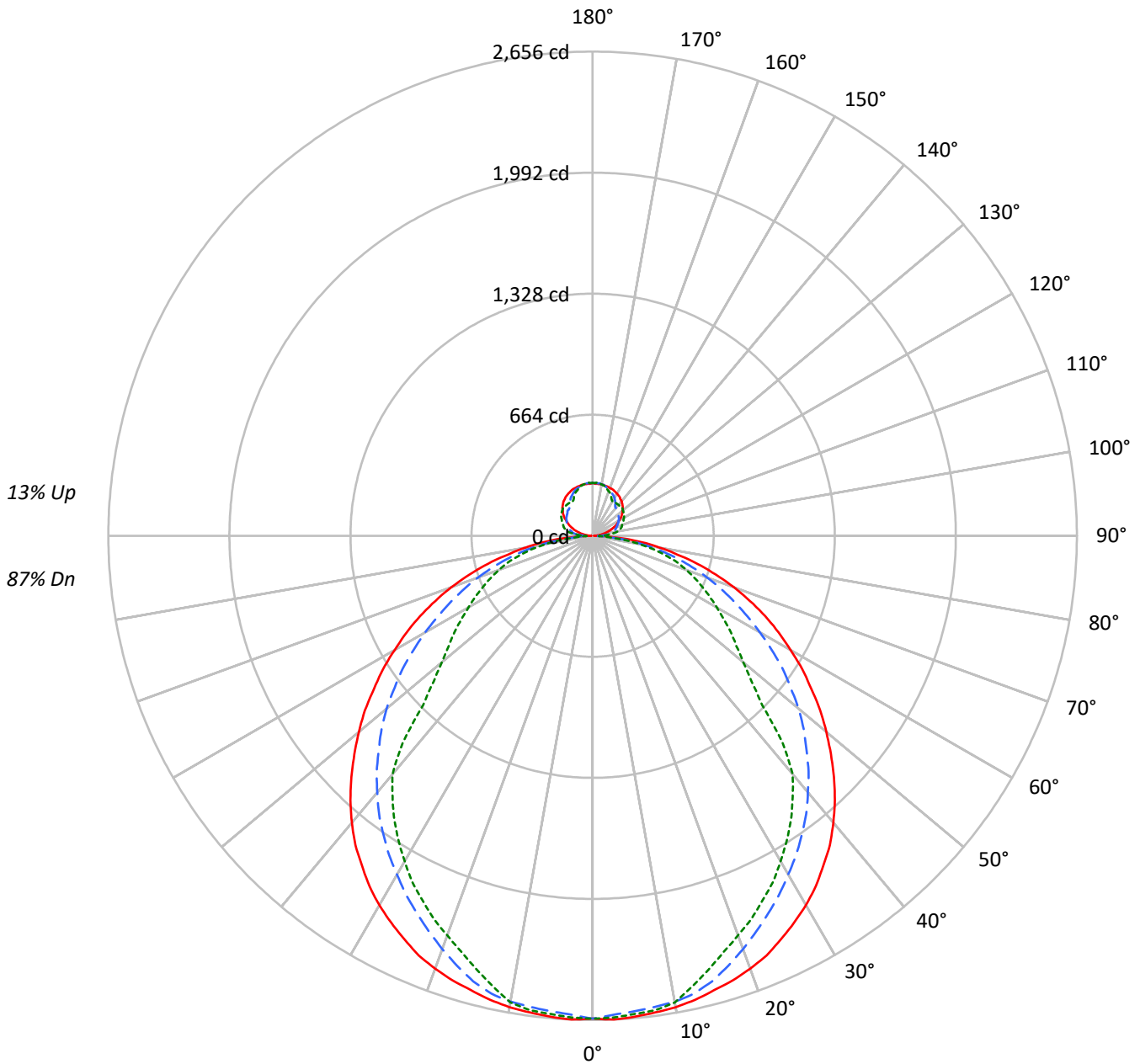
Lumens per Lamp: N/A
Luminaire Lumens: 8243.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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

TEST NUMBER: P520635

CATALOG NUMBER: 8WSLA-100-L840-UPL8-UNV-U

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7128	7128	7128
5°	7155	7072	7113
10°	7175	7092	7102
15°	7188	7050	6859
20°	7236	6908	6679
25°	7253	6778	6552
30°	7271	6667	6407
35°	7249	6573	6235
40°	7216	6453	5997
45°	7121	6309	5004
50°	7004	6175	4515
55°	6866	5972	4345
60°	6748	5702	4225
65°	6649	5460	4222
70°	6477	5247	4288
75°	6181	4993	4319
80°	5788	4488	4017
85°	5295	3177	2708



TEST NUMBER: P520635

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.7	3.0
10°-20°	712.9	8.6
20°-30°	1065.2	12.9
30°-40°	1271.5	15.4
40°-50°	1271.6	15.4
50°-60°	1100.5	13.4
60°-70°	844.7	10.2
70°-80°	517.6	6.3
80°-90°	145.7	1.8
90°-100°	82.4	1.0
100°-110°	130.7	1.6
110°-120°	152.8	1.9
120°-130°	165.0	2.0
130°-140°	162.6	2.0
140°-150°	143.8	1.7
150°-160°	118.4	1.4
160°-170°	79.2	1.0
170°-180°	27.6	0.3
0°-30°	2028.8	24.6
0°-40°	3300.3	40.0
0°-60°	5672.5	68.8
0°-90°	7180.5	87.1
90°-120°	365.9	4.4
90°-150°	837.3	10.2
90°-180°	1062.0	12.9
0°-180°	8243.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2649	2649	2649	2649	2649	
5°	2649	2641	2618	2637	2633	252
15°	2580	2576	2530	2485	2462	730
25°	2443	2412	2283	2222	2207	1127
35°	2207	2149	2001	1928	1898	1382
45°	1871	1818	1658	1509	1315	1443
55°	1463	1429	1273	1018	926	1312
65°	1044	1006	858	690	663	1031
75°	594	564	480	415	415	627
85°	172	141	103	88	88	179
90°	8	27	42	53	57	12
95°	30	65	88	92	92	30
105°	88	92	130	152	160	92
115°	145	122	152	175	187	142
125°	194	156	175	202	210	173
135°	232	210	194	213	225	179
145°	259	248	217	213	221	162
155°	274	271	255	244	240	127
165°	282	286	278	278	278	80
175°	286	290	290	293	293	27
180°	290	290	290	290	290	



TEST NUMBER: P520635

CATALOG NUMBER: 8WSLA-100-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2648.7	2648.7	2648.7	2648.7	2648.7
2.5°	2656.3	2648.7	2629.6	2648.7	2644.9
5°	2648.7	2641.0	2618.2	2637.2	2633.4
7.5°	2637.2	2629.6	2606.7	2629.6	2625.8
10°	2625.8	2618.2	2595.3	2610.6	2599.1
12.5°	2606.7	2599.1	2572.4	2553.4	2530.5
15°	2580.1	2576.3	2530.5	2484.8	2461.9
17.5°	2557.2	2545.8	2473.4	2420.0	2393.3
20°	2526.7	2507.7	2412.4	2351.4	2332.4
22.5°	2492.4	2461.9	2347.6	2290.4	2275.2
25°	2442.9	2412.4	2282.8	2221.8	2206.6
27.5°	2393.3	2355.2	2218.0	2157.0	2141.8
30°	2340.0	2286.6	2145.6	2088.4	2061.8
32.5°	2279.0	2225.6	2077.0	2012.2	1981.7
35°	2206.6	2149.4	2000.8	1928.4	1897.9
37.5°	2138.0	2077.0	1924.6	1844.5	1802.6
40°	2054.1	1993.2	1836.9	1749.3	1707.3
42.5°	1966.5	1909.3	1753.1	1646.4	1543.5
45°	1871.2	1817.9	1657.8	1509.2	1314.8
47.5°	1772.1	1726.4	1570.1	1368.2	1181.4
50°	1673.0	1627.3	1474.9	1234.8	1078.5
52.5°	1574.0	1535.8	1368.2	1124.3	994.7
55°	1463.4	1429.1	1272.9	1017.5	926.1
57.5°	1364.4	1330.1	1162.4	929.9	853.7
60°	1253.8	1223.3	1059.5	842.2	785.1
62.5°	1150.9	1116.6	956.6	766.0	724.1
65°	1044.2	1006.1	857.5	689.8	663.1
67.5°	933.7	895.6	762.2	621.2	606.0
70°	823.2	792.7	666.9	552.6	545.0
72.5°	708.9	674.6	571.7	487.8	487.8
75°	594.5	564.0	480.2	415.4	415.4
77.5°	476.4	461.1	384.9	339.2	343.0
80°	373.5	354.4	289.6	259.2	259.2
82.5°	274.4	251.5	194.4	171.5	179.1
85°	171.5	141.0	102.9	87.7	87.7
87.5°	53.4	41.9	30.5	34.3	34.3
90°	7.6	26.7	41.9	53.4	57.2
92.5°	19.1	49.5	61.0	72.4	76.2
95°	30.5	64.8	87.7	91.5	91.5
97.5°	41.9	72.4	106.7	122.0	122.0
100°	57.2	76.2	114.3	137.2	141.0
102.5°	72.4	83.8	122.0	144.8	152.4
105°	87.7	91.5	129.6	152.4	160.1



TEST NUMBER: P520635

CATALOG NUMBER: 8WSLA-100-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.6	114.3	144.8	171.5	179.1
115°	144.8	122.0	152.4	175.3	186.7
117.5°	156.3	133.4	160.1	182.9	190.6
120°	167.7	141.0	163.9	190.6	198.2
122.5°	182.9	148.6	171.5	194.4	205.8
125°	194.4	156.3	175.3	202.0	209.6
127.5°	205.8	171.5	179.1	205.8	213.4
130°	213.4	186.7	182.9	209.6	217.2
132.5°	224.9	198.2	186.7	213.4	221.0
135°	232.5	209.6	194.4	213.4	224.9
137.5°	240.1	221.0	194.4	213.4	221.0
140°	247.7	232.5	198.2	213.4	221.0
142.5°	251.5	240.1	202.0	213.4	221.0
145°	259.2	247.7	217.2	213.4	221.0
147.5°	263.0	255.3	228.7	213.4	221.0
150°	266.8	263.0	240.1	217.2	217.2
152.5°	270.6	266.8	247.7	232.5	224.9
155°	274.4	270.6	255.3	243.9	240.1
157.5°	278.2	278.2	263.0	255.3	251.5
160°	278.2	282.0	270.6	263.0	259.2
162.5°	282.0	285.8	274.4	270.6	266.8
165°	282.0	285.8	278.2	278.2	278.2
167.5°	285.8	289.6	285.8	282.0	282.0
170°	285.8	289.6	285.8	285.8	285.8
172.5°	285.8	289.6	289.6	289.6	289.6
175°	285.8	289.6	289.6	293.4	293.4
177.5°	285.8	289.6	289.6	289.6	289.6
180°	289.6	289.6	289.6	289.6	289.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	102.9	99.1	133.4	160.1	167.7
110°	114.3	106.7	141.0	163.9	171.5



(END OF REPORT)