

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: P520662

Luminaire Tested: **8WSLA-125-L850-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520662
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-125-L850-UPL8-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

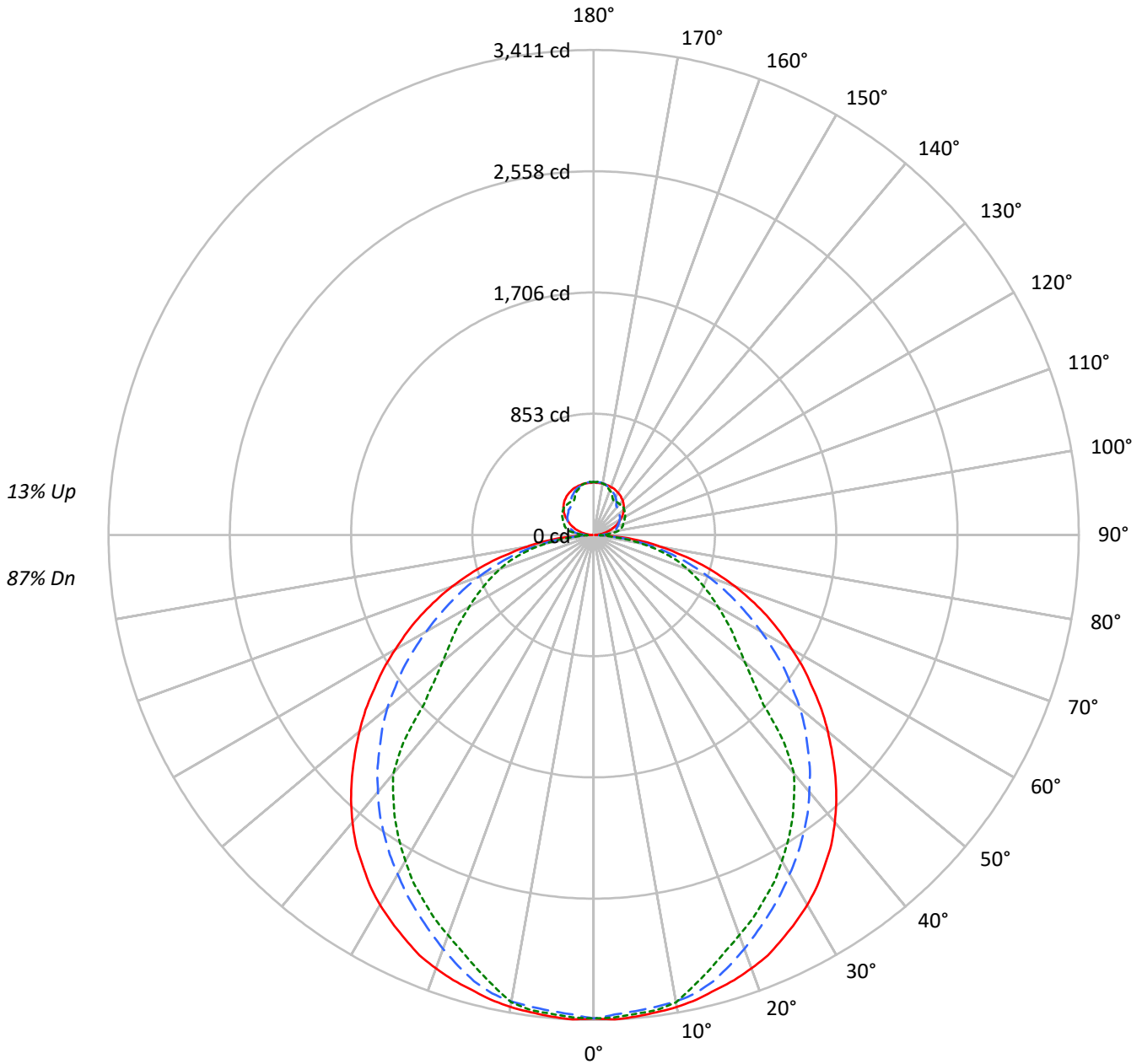
Lumens per Lamp: N/A
Luminaire Lumens: 10585.0 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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									
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°	9153	9153	9153
5°	9188	9082	9135
10°	9213	9107	9120
15°	9230	9053	8807
20°	9291	8871	8577
25°	9314	8704	8413
30°	9337	8561	8227
35°	9308	8440	8006
40°	9266	8286	7702
45°	9145	8101	6425
50°	8994	7929	5798
55°	8816	7668	5579
60°	8665	7322	5426
65°	8538	7011	5422
70°	8317	6738	5506
75°	7937	6411	5546
80°	7432	5763	5157
85°	6799	4079	3477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.0	3.0
10°-20°	915.4	8.6
20°-30°	1367.8	12.9
30°-40°	1632.8	15.4
40°-50°	1632.9	15.4
50°-60°	1413.2	13.4
60°-70°	1084.7	10.2
70°-80°	664.7	6.3
80°-90°	187.1	1.8
90°-100°	105.8	1.0
100°-110°	167.9	1.6
110°-120°	196.3	1.9
120°-130°	211.9	2.0
130°-140°	208.8	2.0
140°-150°	184.7	1.7
150°-160°	152.0	1.4
160°-170°	101.7	1.0
170°-180°	35.4	0.3
0°-30°	2605.2	24.6
0°-40°	4238.0	40.0
0°-60°	7284.2	68.8
0°-90°	9220.7	87.1
90°-120°	469.9	4.4
90°-150°	1075.2	10.2
90°-180°	1364.0	12.9
0°-180°	10585.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3401	3401	3401	3401	3401	
5°	3401	3391	3362	3386	3382	324
15°	3313	3308	3250	3191	3161	937
25°	3137	3098	2931	2853	2834	1447
35°	2834	2760	2569	2476	2437	1774
45°	2403	2334	2129	1938	1688	1853
55°	1879	1835	1634	1307	1189	1685
65°	1341	1292	1101	886	852	1324
75°	763	724	617	533	533	805
85°	220	181	132	113	113	230
90°	10	34	54	68	73	15
95°	39	83	113	118	118	39
105°	113	118	166	196	206	118
115°	186	157	196	225	240	182
125°	250	201	225	259	269	222
135°	298	269	250	274	289	230
145°	333	318	279	274	284	208
155°	352	348	328	313	308	163
165°	362	367	357	357	357	103
175°	367	372	372	377	377	35
180°	372	372	372	372	372	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3401.2	3401.2	3401.2	3401.2	3401.2
2.5°	3411.0	3401.2	3376.7	3401.2	3396.3
5°	3401.2	3391.4	3362.1	3386.5	3381.6
7.5°	3386.5	3376.7	3347.4	3376.7	3371.8
10°	3371.8	3362.1	3332.7	3352.3	3337.6
12.5°	3347.4	3337.6	3303.3	3278.9	3249.5
15°	3313.1	3308.2	3249.5	3190.8	3161.4
17.5°	3283.8	3269.1	3176.1	3107.6	3073.3
20°	3244.6	3220.1	3097.8	3019.5	2995.0
22.5°	3200.6	3161.4	3014.6	2941.2	2921.6
25°	3136.9	3097.8	2931.4	2853.1	2833.5
27.5°	3073.3	3024.4	2848.2	2769.9	2750.3
30°	3004.8	2936.3	2755.2	2681.8	2647.6
32.5°	2926.5	2858.0	2667.1	2583.9	2544.8
35°	2833.5	2760.1	2569.3	2476.3	2437.1
37.5°	2745.4	2667.1	2471.4	2368.6	2314.8
40°	2637.8	2559.5	2358.8	2246.3	2192.4
42.5°	2525.2	2451.8	2251.2	2114.1	1982.0
45°	2402.9	2334.4	2128.8	1938.0	1688.4
47.5°	2275.6	2216.9	2016.3	1756.9	1517.1
50°	2148.4	2089.7	1893.9	1585.6	1385.0
52.5°	2021.2	1972.2	1756.9	1443.7	1277.3
55°	1879.2	1835.2	1634.5	1306.7	1189.2
57.5°	1752.0	1707.9	1492.6	1194.1	1096.2
60°	1610.1	1570.9	1360.5	1081.5	1008.1
62.5°	1477.9	1433.9	1228.4	983.7	929.8
65°	1340.9	1292.0	1101.1	885.8	851.5
67.5°	1199.0	1150.0	978.8	797.7	778.1
70°	1057.1	1017.9	856.4	709.6	699.8
72.5°	910.3	866.2	734.1	626.4	626.4
75°	763.4	724.3	616.6	533.4	533.4
77.5°	611.7	592.2	494.3	435.6	440.4
80°	479.6	455.1	371.9	332.8	332.8
82.5°	352.4	323.0	249.6	220.2	230.0
85°	220.2	181.1	132.1	112.6	112.6
87.5°	68.5	53.8	39.2	44.0	44.0
90°	9.8	34.3	53.8	68.5	73.4
92.5°	24.5	63.6	78.3	93.0	97.9
95°	39.2	83.2	112.6	117.5	117.5
97.5°	53.8	93.0	137.0	156.6	156.6
100°	73.4	97.9	146.8	176.2	181.1
102.5°	93.0	107.7	156.6	186.0	195.8
105°	112.6	117.5	166.4	195.8	205.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	166.4	146.8	186.0	220.2	230.0
115°	186.0	156.6	195.8	225.1	239.8
117.5°	200.6	171.3	205.5	234.9	244.7
120°	215.3	181.1	210.4	244.7	254.5
122.5°	234.9	190.9	220.2	249.6	264.3
125°	249.6	200.6	225.1	259.4	269.2
127.5°	264.3	220.2	230.0	264.3	274.1
130°	274.1	239.8	234.9	269.2	278.9
132.5°	288.7	254.5	239.8	274.1	283.8
135°	298.5	269.2	249.6	274.1	288.7
137.5°	308.3	283.8	249.6	274.1	283.8
140°	318.1	298.5	254.5	274.1	283.8
142.5°	323.0	308.3	259.4	274.1	283.8
145°	332.8	318.1	278.9	274.1	283.8
147.5°	337.7	327.9	293.6	274.1	283.8
150°	342.6	337.7	308.3	278.9	278.9
152.5°	347.5	342.6	318.1	298.5	288.7
155°	352.4	347.5	327.9	313.2	308.3
157.5°	357.2	357.2	337.7	327.9	323.0
160°	357.2	362.1	347.5	337.7	332.8
162.5°	362.1	367.0	352.4	347.5	342.6
165°	362.1	367.0	357.2	357.2	357.2
167.5°	367.0	371.9	367.0	362.1	362.1
170°	367.0	371.9	367.0	367.0	367.0
172.5°	367.0	371.9	371.9	371.9	371.9
175°	367.0	371.9	371.9	376.8	376.8
177.5°	367.0	371.9	371.9	371.9	371.9
180°	371.9	371.9	371.9	371.9	371.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	132.1	127.2	171.3	205.5	215.3
110°	146.8	137.0	181.1	210.4	220.2



(END OF REPORT)