

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: P520653

Luminaire Tested: **8WSLA-125-L830-UPL8-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520653
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-L830-UPL8-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

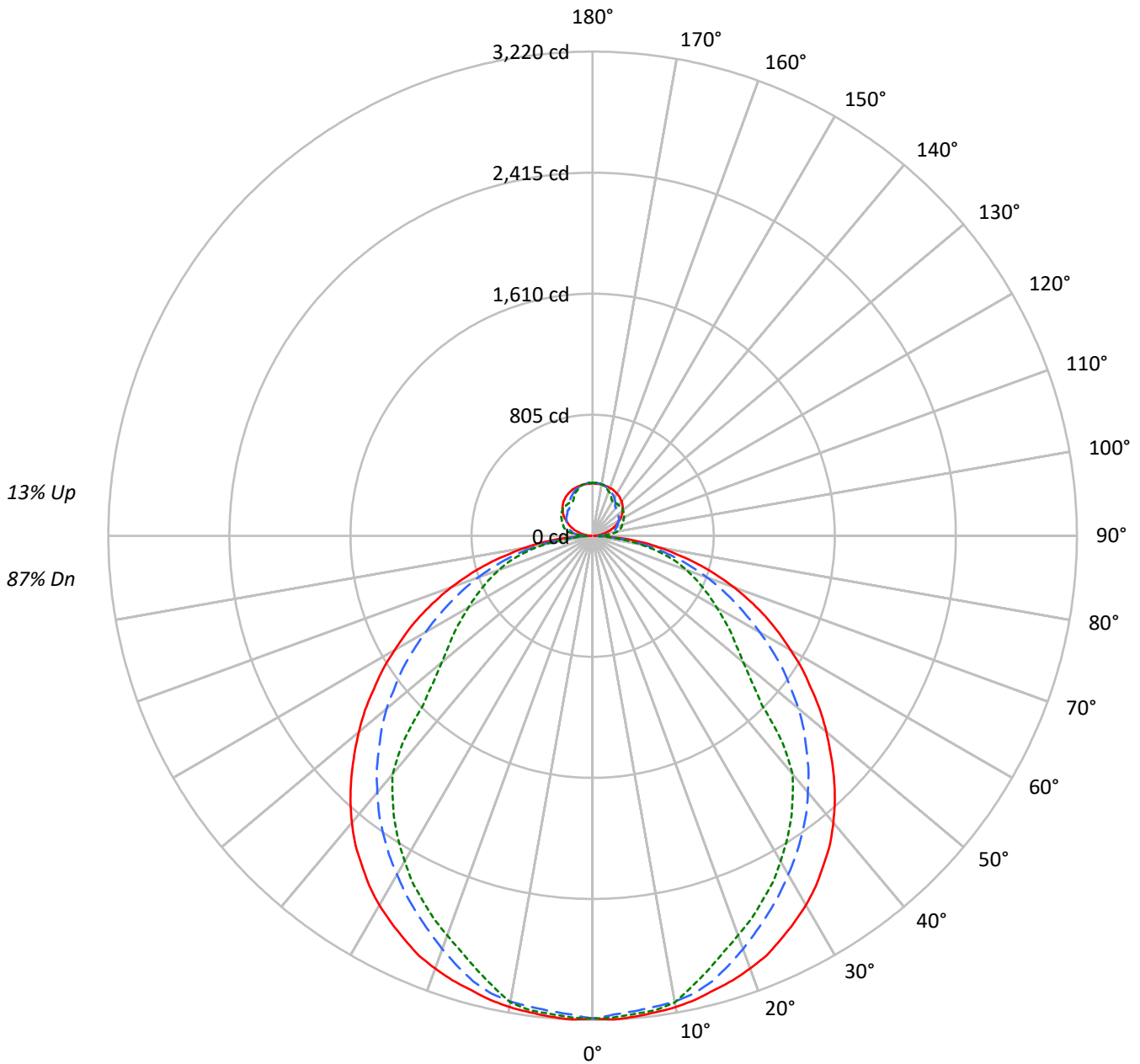
Lumens per Lamp: N/A
Luminaire Lumens: 9992.0 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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°	8640	8640	8640
5°	8673	8573	8623
10°	8697	8596	8609
15°	8713	8546	8314
20°	8771	8374	8096
25°	8792	8216	7942
30°	8814	8082	7766
35°	8787	7967	7558
40°	8747	7822	7270
45°	8632	7648	6065
50°	8490	7484	5473
55°	8323	7239	5267
60°	8180	6912	5122
65°	8060	6618	5118
70°	7851	6360	5198
75°	7493	6052	5235
80°	7015	5441	4868
85°	6419	3850	3282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.9	3.0
10°-20°	864.1	8.6
20°-30°	1291.2	12.9
30°-40°	1541.3	15.4
40°-50°	1541.5	15.4
50°-60°	1334.1	13.4
60°-70°	1024.0	10.2
70°-80°	627.4	6.3
80°-90°	176.6	1.8
90°-100°	99.8	1.0
100°-110°	158.5	1.6
110°-120°	185.3	1.9
120°-130°	200.0	2.0
130°-140°	197.1	2.0
140°-150°	174.3	1.7
150°-160°	143.5	1.4
160°-170°	96.0	1.0
170°-180°	33.4	0.3
0°-30°	2459.3	24.6
0°-40°	4000.6	40.0
0°-60°	6876.1	68.8
0°-90°	8704.1	87.1
90°-120°	443.5	4.4
90°-150°	1014.9	10.2
90°-180°	1288.0	12.9
0°-180°	9992.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3211	3211	3211	3211	3211	
5°	3211	3201	3174	3197	3192	306
15°	3128	3123	3068	3012	2984	885
25°	2961	2924	2767	2693	2675	1366
35°	2675	2606	2425	2338	2301	1675
45°	2268	2204	2010	1829	1594	1749
55°	1774	1732	1543	1233	1123	1590
65°	1266	1220	1039	836	804	1250
75°	721	684	582	504	504	760
85°	208	171	125	106	106	217
90°	9	32	51	65	69	15
95°	37	78	106	111	111	36
105°	106	111	157	185	194	112
115°	176	148	185	212	226	172
125°	236	189	212	245	254	210
135°	282	254	236	259	273	217
145°	314	300	263	259	268	196
155°	333	328	310	296	291	153
165°	342	346	337	337	337	97
175°	346	351	351	356	356	33
180°	351	351	351	351	351	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3210.7	3210.7	3210.7	3210.7	3210.7
2.5°	3219.9	3210.7	3187.6	3210.7	3206.0
5°	3210.7	3201.4	3173.7	3196.8	3192.2
7.5°	3196.8	3187.6	3159.8	3187.6	3182.9
10°	3182.9	3173.7	3146.0	3164.5	3150.6
12.5°	3159.8	3150.6	3118.3	3095.2	3067.5
15°	3127.5	3122.9	3067.5	3012.0	2984.3
17.5°	3099.8	3085.9	2998.2	2933.5	2901.1
20°	3062.8	3039.7	2924.2	2850.3	2827.2
22.5°	3021.3	2984.3	2845.7	2776.4	2757.9
25°	2961.2	2924.2	2767.2	2693.3	2674.8
27.5°	2901.1	2855.0	2688.6	2614.7	2596.2
30°	2836.5	2771.8	2600.9	2531.6	2499.2
32.5°	2762.6	2697.9	2517.7	2439.2	2402.2
35°	2674.8	2605.5	2425.3	2337.5	2300.6
37.5°	2591.6	2517.7	2332.9	2235.9	2185.1
40°	2490.0	2416.1	2226.7	2120.4	2069.6
42.5°	2383.7	2314.5	2125.0	1995.7	1871.0
45°	2268.3	2203.6	2009.6	1829.4	1593.8
47.5°	2148.1	2092.7	1903.3	1658.5	1432.1
50°	2028.0	1972.6	1787.8	1496.8	1307.4
52.5°	1907.9	1861.7	1658.5	1362.8	1205.7
55°	1774.0	1732.4	1543.0	1233.4	1122.6
57.5°	1653.8	1612.3	1409.0	1127.2	1034.8
60°	1519.9	1482.9	1284.3	1020.9	951.7
62.5°	1395.1	1353.6	1159.5	928.6	877.7
65°	1265.8	1219.6	1039.4	836.2	803.8
67.5°	1131.8	1085.6	923.9	753.0	734.5
70°	997.8	960.9	808.4	669.9	660.6
72.5°	859.3	817.7	692.9	591.3	591.3
75°	720.7	683.7	582.1	503.5	503.5
77.5°	577.5	559.0	466.6	411.1	415.8
80°	452.7	429.6	351.1	314.1	314.1
82.5°	332.6	304.9	235.6	207.9	217.1
85°	207.9	170.9	124.7	106.3	106.3
87.5°	64.7	50.8	37.0	41.6	41.6
90°	9.2	32.3	50.8	64.7	69.3
92.5°	23.1	60.1	73.9	87.8	92.4
95°	37.0	78.5	106.3	110.9	110.9
97.5°	50.8	87.8	129.4	147.8	147.8
100°	69.3	92.4	138.6	166.3	170.9
102.5°	87.8	101.6	147.8	175.5	184.8
105°	106.3	110.9	157.1	184.8	194.0



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CATALOG NUMBER: 8WSLA-125-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	157.1	138.6	175.5	207.9	217.1
115°	175.5	147.8	184.8	212.5	226.4
117.5°	189.4	161.7	194.0	221.7	231.0
120°	203.3	170.9	198.6	231.0	240.2
122.5°	221.7	180.2	207.9	235.6	249.5
125°	235.6	189.4	212.5	244.8	254.1
127.5°	249.5	207.9	217.1	249.5	258.7
130°	258.7	226.4	221.7	254.1	263.3
132.5°	272.6	240.2	226.4	258.7	267.9
135°	281.8	254.1	235.6	258.7	272.6
137.5°	291.0	267.9	235.6	258.7	267.9
140°	300.3	281.8	240.2	258.7	267.9
142.5°	304.9	291.0	244.8	258.7	267.9
145°	314.1	300.3	263.3	258.7	267.9
147.5°	318.8	309.5	277.2	258.7	267.9
150°	323.4	318.8	291.0	263.3	263.3
152.5°	328.0	323.4	300.3	281.8	272.6
155°	332.6	328.0	309.5	295.7	291.0
157.5°	337.2	337.2	318.8	309.5	304.9
160°	337.2	341.9	328.0	318.8	314.1
162.5°	341.9	346.5	332.6	328.0	323.4
165°	341.9	346.5	337.2	337.2	337.2
167.5°	346.5	351.1	346.5	341.9	341.9
170°	346.5	351.1	346.5	346.5	346.5
172.5°	346.5	351.1	351.1	351.1	351.1
175°	346.5	351.1	351.1	355.7	355.7
177.5°	346.5	351.1	351.1	351.1	351.1
180°	351.1	351.1	351.1	351.1	351.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	124.7	120.1	161.7	194.0	203.3
110°	138.6	129.4	170.9	198.6	207.9



(END OF REPORT)