

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: METALUX

Report Number: P231490

Luminaire Tested: **SSLED-LD5-9-W-UNV-L850-CD1-U-CLR22-CLCDL22**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P231490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSLED-LD5-9-W-UNV-L850-CD1-U-CLR22-CLCDL22
Description: STEELER CLEAR REFRACTOR LENS AND CONICAL DROP
Light Source: (240) 5000 CCT, 80 CRI LEDS
Ballast/Driver: (1) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8933.0 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 1.63 / 1.67 / 1.65
Luminous Opening: Vertical Cylinder (Dia: 1.67' x H: 1.17')
CIE Type: Direct

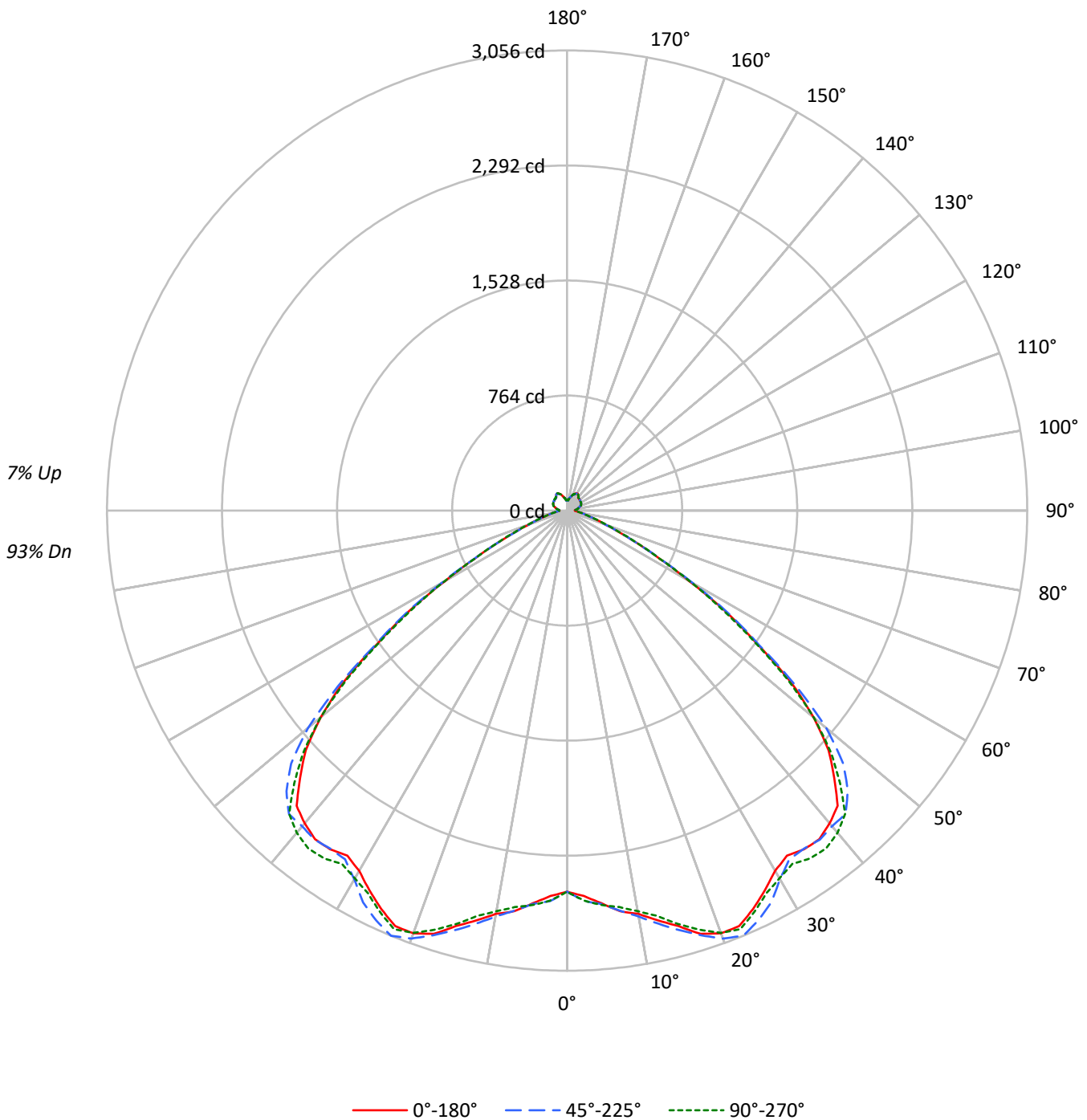
Input Watts (W): 64.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	109	105	101	98	105	102	98	95	96	94	91	91	89	87	87	85	84	81				
2	100	93	87	82	97	90	85	80	86	81	77	82	78	75	78	75	72	70				
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	69	65	62	60				
4	84	73	65	59	81	71	64	58	68	62	57	65	60	55	62	58	54	52				
5	78	66	57	51	75	64	56	50	61	54	49	59	53	48	56	51	47	45				
6	72	59	51	44	69	58	50	44	55	48	43	53	47	42	51	46	41	39				
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35				
8	62	49	40	35	60	48	40	34	46	39	34	44	38	33	42	37	33	31				
9	57	44	36	31	56	44	36	31	42	35	30	40	34	30	39	33	29	28				
10	54	41	33	28	52	40	33	28	39	32	27	37	31	27	36	30	27	25				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12488	12488	12488
5°	12028	12048	12080
10°	11772	11851	11693
15°	11780	11896	11717
20°	11843	11991	11833
25°	11230	11548	11310
30°	10391	10632	10608
35°	10183	10164	10451
40°	9992	10085	10292
45°	9255	9726	9457
50°	7956	8361	7959
55°	5806	5888	5735
60°	3635	3727	3666
65°	2048	2046	2087
70°	1138	1118	1190
75°	680	687	697
80°	476	472	474
85°	327	329	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	2.8
10°-20°	814.1	9.1
20°-30°	1355.1	15.2
30°-40°	1743.2	19.5
40°-50°	1969.5	22.0
50°-60°	1398.7	15.7
60°-70°	539.5	6.0
70°-80°	177.4	2.0
80°-90°	75.5	0.8
90°-100°	64.7	0.7
100°-110°	87.9	1.0
110°-120°	101.1	1.1
120°-130°	96.3	1.1
130°-140°	86.3	1.0
140°-150°	78.6	0.9
150°-160°	56.8	0.6
160°-170°	27.9	0.3
170°-180°	7.1	0.1
0°-30°	2422.5	27.1
0°-40°	4165.7	46.6
0°-60°	7533.9	84.3
0°-90°	8326.4	93.2
90°-120°	253.7	2.8
90°-150°	514.9	5.8
90°-180°	607.0	6.8
0°-180°	8933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2531	2531	2531	2531	2531	
5°	2618	2616	2622	2611	2629	253
15°	2857	2870	2885	2861	2842	815
25°	2920	2905	3003	2927	2941	1342
35°	2746	2747	2741	2793	2818	1720
45°	2509	2548	2636	2587	2563	1920
55°	1534	1573	1556	1553	1515	1380
65°	511	502	510	511	520	536
75°	154	158	156	157	158	177
85°	65	65	65	65	65	61
90°	51	51	51	52	51	28
95°	56	56	57	57	58	50
105°	84	83	81	82	82	88
115°	102	102	102	103	104	101
125°	107	107	108	108	108	96
135°	111	110	111	112	113	86
145°	127	127	127	128	129	78
155°	123	123	119	122	122	57
165°	94	96	95	95	93	27
175°	68	67	67	67	67	7
180°	73	73	73	73	73	



TEST NUMBER: P231490

CATALOG NUMBER: SSLED-LD5-9-W-UNV-L850-CD1-U-CLR22-CLCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2531.2	2531.2	2531.2	2531.2	2531.2
2.5°	2561.8	2591.4	2595.3	2573.6	2592.8
5°	2618.0	2616.5	2622.4	2610.6	2629.3
7.5°	2683.5	2674.7	2679.1	2664.3	2656.4
10°	2719.0	2717.1	2737.3	2716.1	2700.8
12.5°	2787.1	2783.1	2810.7	2779.2	2756.5
15°	2857.1	2869.9	2885.2	2861.0	2841.8
17.5°	2947.3	2918.7	2956.6	2915.2	2917.7
20°	2987.2	2947.3	3024.7	2953.2	2984.7
22.5°	2986.7	2964.0	3055.7	2945.8	3007.9
25°	2920.2	2905.4	3003.0	2927.1	2940.9
27.5°	2842.8	2870.9	2934.5	2896.5	2865.0
30°	2762.4	2850.2	2826.5	2890.6	2820.1
32.5°	2717.1	2801.4	2746.2	2848.2	2782.6
35°	2745.7	2747.1	2740.7	2793.0	2818.1
37.5°	2750.6	2730.9	2755.5	2768.8	2826.5
40°	2711.6	2722.5	2736.8	2769.3	2793.0
42.5°	2659.4	2671.7	2734.8	2711.6	2732.4
45°	2508.6	2547.5	2636.2	2586.9	2563.3
47.5°	2355.3	2447.4	2487.4	2475.0	2375.5
50°	2137.4	2214.3	2246.3	2239.4	2138.4
52.5°	1875.1	1887.5	1918.5	1893.4	1848.0
55°	1534.0	1573.0	1555.7	1553.2	1515.3
57.5°	1251.6	1274.2	1269.8	1263.4	1220.0
60°	937.1	954.8	960.7	958.8	945.0
62.5°	694.1	697.5	700.0	710.3	691.6
65°	510.7	502.3	510.2	510.7	520.5
67.5°	365.8	362.8	367.2	369.7	382.0
70°	272.1	268.7	267.2	275.1	284.4
72.5°	208.5	205.6	207.0	210.5	212.0
75°	154.3	157.7	155.8	156.8	158.2
77.5°	122.7	122.2	121.3	121.8	123.2
80°	101.5	100.6	100.6	99.6	101.1
82.5°	80.8	81.8	81.3	81.8	81.8
85°	64.6	65.1	65.1	65.1	64.6
87.5°	54.2	54.7	54.2	55.2	54.7
90°	50.8	51.3	51.3	51.8	51.3
92.5°	51.8	52.7	52.7	53.7	53.2
95°	56.2	56.2	56.7	57.2	57.7
97.5°	64.1	64.6	65.6	66.1	66.1
100°	71.5	72.5	73.0	73.4	74.4
102.5°	75.9	75.9	75.9	76.9	76.9
105°	84.3	83.3	80.8	82.3	81.8
107.5°	90.2	89.2	88.7	90.2	91.2
110°	96.6	95.6	95.1	96.6	97.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	99.6	99.1	99.1	100.1	101.1
115°	102.5	102.0	102.0	103.0	103.5
117.5°	104.0	104.0	105.0	105.0	105.5
120°	104.5	105.0	106.0	106.0	106.0
122.5°	106.0	105.5	107.0	106.5	107.0
125°	107.0	107.0	108.0	107.5	108.0
127.5°	108.0	107.5	108.4	108.4	108.4
130°	108.9	108.9	109.9	109.9	109.9
132.5°	109.9	109.4	110.4	110.9	111.9
135°	110.9	110.4	110.9	112.4	113.4
137.5°	111.9	111.4	111.4	112.9	114.4
140°	113.4	113.9	112.9	114.4	114.9
142.5°	120.3	120.3	118.8	120.3	122.2
145°	127.2	127.2	127.2	128.2	128.7
147.5°	130.6	131.1	131.6	131.6	132.1
150°	131.6	131.6	131.6	131.6	132.1
152.5°	130.1	129.6	126.7	129.1	129.6
155°	123.2	122.7	118.8	122.2	122.2
157.5°	117.3	116.8	112.9	116.3	116.8
160°	112.9	115.3	111.4	114.9	112.4
162.5°	102.0	107.0	104.5	105.5	101.5
165°	93.7	95.6	95.1	94.6	92.7
167.5°	88.2	90.2	89.2	89.7	86.8
170°	82.8	84.3	84.8	83.3	81.3
172.5°	73.4	74.4	75.9	73.4	73.4
175°	68.0	67.0	67.0	67.0	67.0
177.5°	70.5	70.5	71.0	69.5	69.5
180°	73.4	73.4	73.4	73.4	73.4

(END OF REPORT)