

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: P231488

Luminaire Tested: **SSLED-LD5-9-W-UNV-L835-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: P231488
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-L835-CD1-U-CLR22-CLCDL22
Description: STEELER CLEAR REFRACTOR LENS AND CONICAL DROP
Light Source: (240) 3500 CCT, 80 CRI LEDS
Ballast/Driver: (1) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8097.0 lumens
Efficiency: N/A
Efficacy: 126.3 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

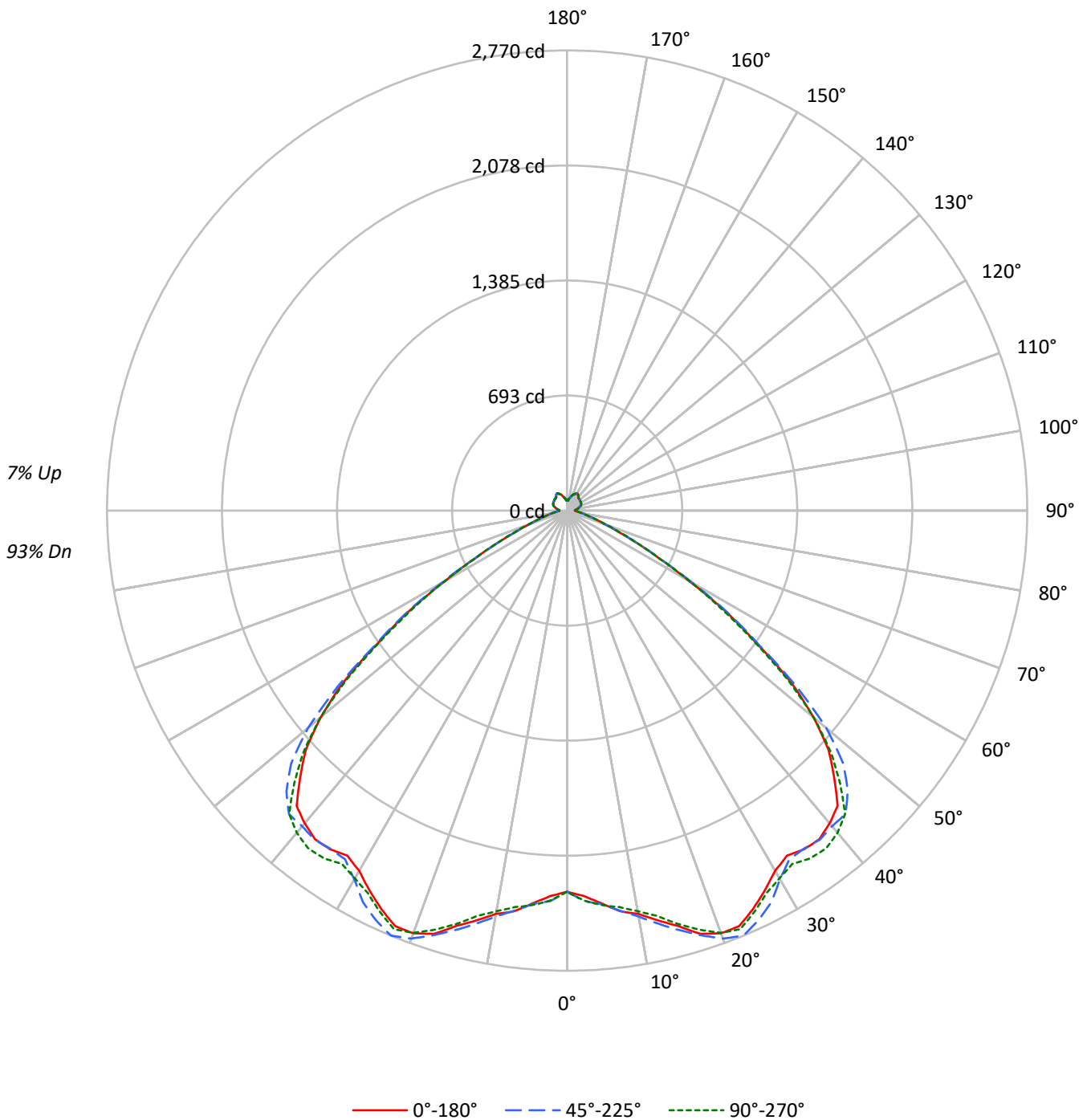
Input Watts (W): 64.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	11320	11320	11320
5°	10903	10921	10950
10°	10671	10742	10599
15°	10678	10783	10620
20°	10734	10869	10725
25°	10179	10467	10251
30°	9418	9637	9615
35°	9230	9213	9473
40°	9057	9141	9329
45°	8389	8816	8572
50°	7211	7579	7214
55°	5262	5337	5198
60°	3295	3378	3323
65°	1856	1854	1892
70°	1031	1013	1078
75°	616	622	632
80°	432	428	430
85°	296	299	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.6	2.8
10°-20°	737.9	9.1
20°-30°	1228.3	15.2
30°-40°	1580.0	19.5
40°-50°	1785.2	22.0
50°-60°	1267.8	15.7
60°-70°	489.0	6.0
70°-80°	160.8	2.0
80°-90°	68.4	0.8
90°-100°	58.6	0.7
100°-110°	79.7	1.0
110°-120°	91.7	1.1
120°-130°	87.3	1.1
130°-140°	78.2	1.0
140°-150°	71.2	0.9
150°-160°	51.5	0.6
160°-170°	25.3	0.3
170°-180°	6.4	0.1
0°-30°	2195.8	27.1
0°-40°	3775.8	46.6
0°-60°	6828.8	84.3
0°-90°	7547.1	93.2
90°-120°	230.0	2.8
90°-150°	466.7	5.8
90°-180°	550.0	6.8
0°-180°	8097.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2294	2294	2294	2294	2294	
5°	2373	2372	2377	2366	2383	230
15°	2590	2601	2615	2593	2576	739
25°	2647	2634	2722	2653	2666	1216
35°	2489	2490	2484	2532	2554	1559
45°	2274	2309	2390	2345	2323	1740
55°	1390	1426	1410	1408	1374	1251
65°	463	455	462	463	472	485
75°	140	143	141	142	143	161
85°	58	59	59	59	58	55
90°	46	46	46	47	46	26
95°	51	51	51	52	52	45
105°	76	76	73	75	74	80
115°	93	92	92	93	94	91
125°	97	97	98	97	98	87
135°	100	100	100	102	103	78
145°	115	115	115	116	117	71
155°	112	111	108	111	111	52
165°	85	87	86	86	84	25
175°	62	61	61	61	61	6
180°	67	67	67	67	67	



TEST NUMBER: P231488

CATALOG NUMBER: SSLED-LD5-9-W-UNV-L835-CD1-U-CLR22-CLCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2294.3	2294.3	2294.3	2294.3	2294.3
2.5°	2322.0	2348.9	2352.4	2332.8	2350.2
5°	2373.0	2371.6	2377.0	2366.3	2383.3
7.5°	2432.4	2424.4	2428.4	2415.0	2407.8
10°	2464.6	2462.8	2481.1	2461.9	2448.0
12.5°	2526.2	2522.7	2547.7	2519.1	2498.5
15°	2589.7	2601.3	2615.2	2593.3	2575.8
17.5°	2671.4	2645.5	2679.9	2642.4	2644.6
20°	2707.6	2671.4	2741.6	2676.8	2705.4
22.5°	2707.2	2686.6	2769.7	2670.1	2726.4
25°	2646.9	2633.5	2721.9	2653.1	2665.6
27.5°	2576.7	2602.2	2659.8	2625.4	2596.8
30°	2503.9	2583.4	2562.0	2620.1	2556.2
32.5°	2462.8	2539.2	2489.2	2581.6	2522.2
35°	2488.7	2490.0	2484.2	2531.6	2554.4
37.5°	2493.2	2475.3	2497.6	2509.7	2562.0
40°	2457.9	2467.7	2480.7	2510.2	2531.6
42.5°	2410.5	2421.7	2478.9	2457.9	2476.6
45°	2273.8	2309.1	2389.5	2344.8	2323.4
47.5°	2134.8	2218.4	2254.6	2243.4	2153.2
50°	1937.3	2007.0	2036.1	2029.8	1938.2
52.5°	1699.6	1710.8	1739.0	1716.2	1675.1
55°	1390.5	1425.8	1410.1	1407.9	1373.5
57.5°	1134.4	1155.0	1151.0	1145.2	1105.8
60°	849.4	865.5	870.8	869.0	856.5
62.5°	629.1	632.2	634.5	643.8	626.9
65°	462.9	455.3	462.4	462.9	471.8
67.5°	331.5	328.8	332.9	335.1	346.3
70°	246.6	243.5	242.2	249.3	257.8
72.5°	189.0	186.3	187.7	190.8	192.1
75°	139.9	143.0	141.2	142.1	143.4
77.5°	111.3	110.8	109.9	110.4	111.7
80°	92.0	91.1	91.1	90.3	91.6
82.5°	73.3	74.2	73.7	74.2	74.2
85°	58.5	59.0	59.0	59.0	58.5
87.5°	49.1	49.6	49.1	50.0	49.6
90°	46.0	46.5	46.5	46.9	46.5
92.5°	46.9	47.8	47.8	48.7	48.3
95°	50.9	50.9	51.4	51.8	52.3
97.5°	58.1	58.5	59.4	59.9	59.9
100°	64.8	65.7	66.1	66.6	67.5
102.5°	68.8	68.8	68.8	69.7	69.7
105°	76.4	75.5	73.3	74.6	74.2
107.5°	81.8	80.9	80.4	81.8	82.7
110°	87.6	86.7	86.2	87.6	88.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	90.3	89.8	89.8	90.7	91.6
115°	92.9	92.5	92.5	93.4	93.8
117.5°	94.3	94.3	95.2	95.2	95.6
120°	94.7	95.2	96.1	96.1	96.1
122.5°	96.1	95.6	97.0	96.5	97.0
125°	97.0	97.0	97.9	97.4	97.9
127.5°	97.9	97.4	98.3	98.3	98.3
130°	98.7	98.7	99.6	99.6	99.6
132.5°	99.6	99.2	100.1	100.5	101.4
135°	100.5	100.1	100.5	101.9	102.8
137.5°	101.4	101.0	101.0	102.3	103.7
140°	102.8	103.2	102.3	103.7	104.1
142.5°	109.0	109.0	107.7	109.0	110.8
145°	115.3	115.3	115.3	116.2	116.6
147.5°	118.4	118.9	119.3	119.3	119.7
150°	119.3	119.3	119.3	119.3	119.7
152.5°	118.0	117.5	114.8	117.1	117.5
155°	111.7	111.3	107.7	110.8	110.8
157.5°	106.3	105.9	102.3	105.4	105.9
160°	102.3	104.6	101.0	104.1	101.9
162.5°	92.5	97.0	94.7	95.6	92.0
165°	84.9	86.7	86.2	85.8	84.0
167.5°	80.0	81.8	80.9	81.3	78.6
170°	75.1	76.4	76.9	75.5	73.7
172.5°	66.6	67.5	68.8	66.6	66.6
175°	61.7	60.8	60.8	60.8	60.8
177.5°	63.9	63.9	64.3	63.0	63.0
180°	66.6	66.6	66.6	66.6	66.6

(END OF REPORT)