

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: P231492

Luminaire Tested: **SSLED-LD5-12-W-UNV-L840-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: P231492  
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-LD5-12-W-UNV-L840-CD1-U-CLR22-CLCDL22  
Description: STEELER CLEAR REFRACTOR LENS AND CONICAL DROP  
Light Source: (240) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: (1) ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11548.0 lumens  
Efficiency: N/A  
Efficacy: 135.4 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

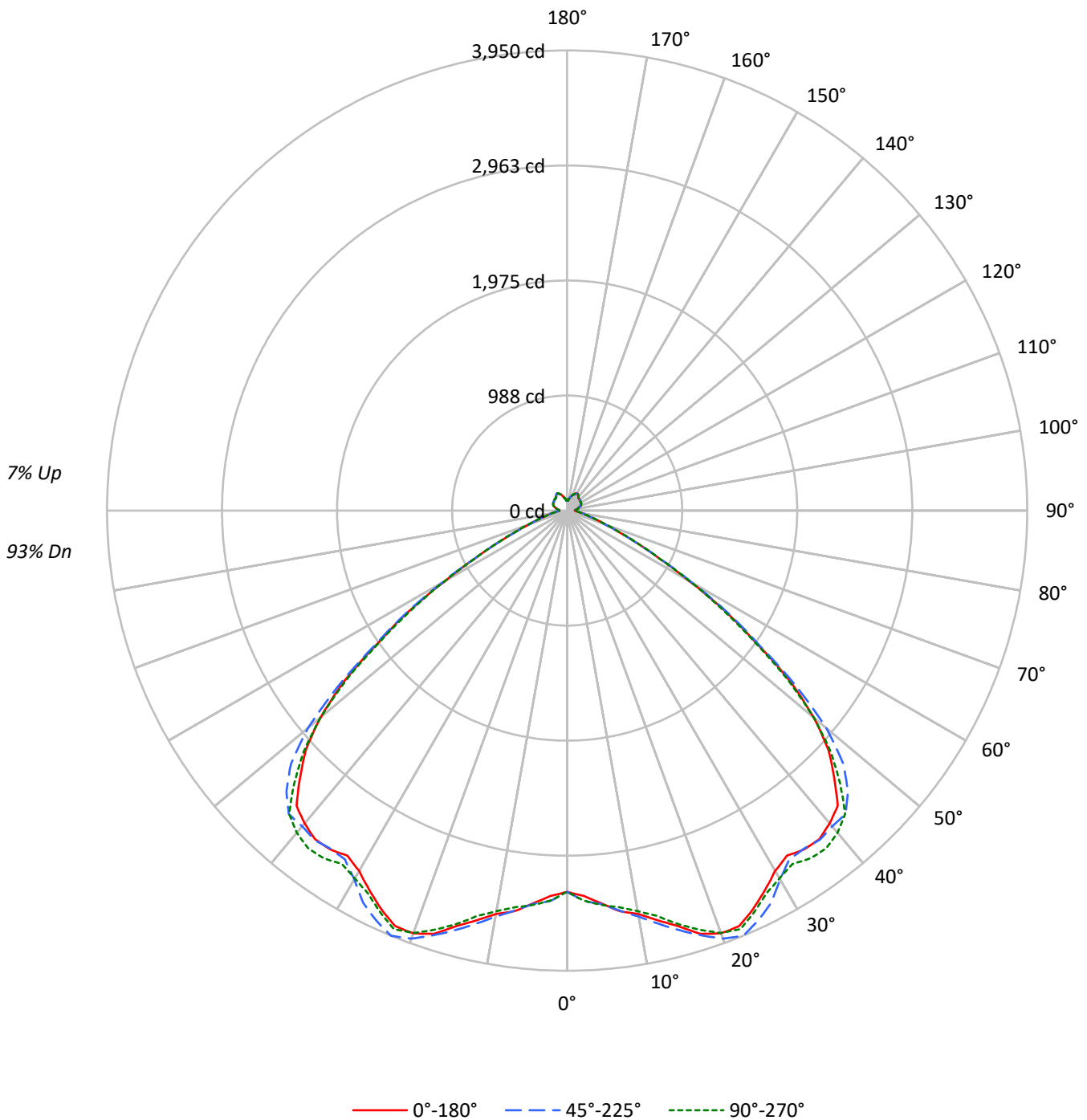
Input Watts (W): 85.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	16144	16144	16144
5°	15549	15575	15616
10°	15218	15320	15116
15°	15229	15378	15147
20°	15309	15501	15297
25°	14517	14929	14620
30°	13433	13744	13713
35°	13163	13140	13511
40°	12917	13037	13305
45°	11964	12573	12225
50°	10285	10809	10289
55°	7505	7611	7414
60°	4699	4818	4739
65°	2647	2645	2698
70°	1472	1445	1538
75°	879	887	902
80°	616	610	613
85°	423	426	423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.5	2.8
10°-20°	1052.4	9.1
20°-30°	1751.8	15.2
30°-40°	2253.4	19.5
40°-50°	2546.1	22.0
50°-60°	1808.2	15.7
60°-70°	697.4	6.0
70°-80°	229.4	2.0
80°-90°	97.6	0.8
90°-100°	83.6	0.7
100°-110°	113.7	1.0
110°-120°	130.7	1.1
120°-130°	124.5	1.1
130°-140°	111.5	1.0
140°-150°	101.6	0.9
150°-160°	73.5	0.6
160°-170°	36.0	0.3
170°-180°	9.1	0.1
0°-30°	3131.6	27.1
0°-40°	5385.1	46.6
0°-60°	9739.3	84.3
0°-90°	10763.7	93.2
90°-120°	328.0	2.8
90°-150°	665.6	5.8
90°-180°	784.0	6.8
0°-180°	11548.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3272	3272	3272	3272	3272	
5°	3384	3382	3390	3375	3399	328
15°	3693	3710	3730	3698	3674	1054
25°	3775	3756	3882	3784	3802	1735
35°	3549	3551	3543	3611	3643	2223
45°	3243	3293	3408	3344	3314	2482
55°	1983	2033	2011	2008	1959	1784
65°	660	649	660	660	673	692
75°	200	204	201	203	205	229
85°	84	84	84	84	84	79
90°	66	66	66	67	66	37
95°	73	73	73	74	75	64
105°	109	108	104	106	106	114
115°	132	132	132	133	134	130
125°	138	138	140	139	140	124
135°	143	143	143	145	147	111
145°	164	164	164	166	166	101
155°	159	159	154	158	158	74
165°	121	124	123	122	120	36
175°	88	87	87	87	87	9
180°	95	95	95	95	95	



TEST NUMBER: P231492

CATALOG NUMBER: SSLED-LD5-12-W-UNV-L840-CD1-U-CLR22-CLCDL22

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3272.2	3272.2	3272.2	3272.2	3272.2
2.5°	3311.7	3350.0	3355.1	3327.0	3351.9
5°	3384.4	3382.5	3390.1	3374.8	3399.0
7.5°	3469.1	3457.6	3463.4	3444.3	3434.1
10°	3515.0	3512.5	3538.6	3511.2	3491.4
12.5°	3602.9	3597.8	3633.5	3592.7	3563.4
15°	3693.4	3710.0	3729.7	3698.5	3673.7
17.5°	3810.0	3773.1	3822.1	3768.6	3771.8
20°	3861.7	3810.0	3910.1	3817.7	3858.5
22.5°	3861.0	3831.7	3950.2	3808.1	3888.4
25°	3775.0	3755.9	3882.0	3783.9	3801.8
27.5°	3674.9	3711.3	3793.5	3744.4	3703.6
30°	3571.1	3684.5	3653.9	3736.8	3645.6
32.5°	3512.5	3621.4	3550.0	3682.0	3597.2
35°	3549.4	3551.3	3543.0	3610.6	3643.1
37.5°	3555.8	3530.3	3562.2	3579.4	3653.9
40°	3505.4	3519.5	3537.9	3580.0	3610.6
42.5°	3437.9	3453.8	3535.4	3505.4	3532.2
45°	3242.9	3293.2	3407.9	3344.2	3313.6
47.5°	3044.7	3163.9	3215.5	3199.6	3070.8
50°	2763.1	2862.5	2903.9	2895.0	2764.3
52.5°	2424.0	2440.0	2480.1	2447.6	2389.0
55°	1983.1	2033.4	2011.1	2007.9	1958.9
57.5°	1617.9	1647.3	1641.5	1633.2	1577.2
60°	1211.4	1234.3	1242.0	1239.4	1221.6
62.5°	897.2	901.7	904.9	918.3	894.0
65°	660.2	649.3	659.5	660.2	672.9
67.5°	472.8	469.0	474.7	477.9	493.9
70°	351.8	347.3	345.4	355.6	367.7
72.5°	269.6	265.7	267.6	272.1	274.0
75°	199.5	203.9	201.4	202.6	204.6
77.5°	158.7	158.0	156.8	157.4	159.3
80°	131.3	130.0	130.0	128.7	130.6
82.5°	104.5	105.8	105.1	105.8	105.8
85°	83.5	84.1	84.1	84.1	83.5
87.5°	70.1	70.7	70.1	71.4	70.7
90°	65.6	66.3	66.3	66.9	66.3
92.5°	66.9	68.2	68.2	69.5	68.8
95°	72.6	72.6	73.3	73.9	74.6
97.5°	82.8	83.5	84.8	85.4	85.4
100°	92.4	93.7	94.3	94.9	96.2
102.5°	98.1	98.1	98.1	99.4	99.4
105°	109.0	107.7	104.5	106.4	105.8
107.5°	116.6	115.3	114.7	116.6	117.9
110°	124.9	123.6	123.0	124.9	126.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	128.7	128.1	128.1	129.4	130.6
115°	132.5	131.9	131.9	133.2	133.8
117.5°	134.5	134.5	135.7	135.7	136.4
120°	135.1	135.7	137.0	137.0	137.0
122.5°	137.0	136.4	138.3	137.6	138.3
125°	138.3	138.3	139.6	138.9	139.6
127.5°	139.6	138.9	140.2	140.2	140.2
130°	140.8	140.8	142.1	142.1	142.1
132.5°	142.1	141.5	142.7	143.4	144.7
135°	143.4	142.7	143.4	145.3	146.6
137.5°	144.7	144.0	144.0	145.9	147.8
140°	146.6	147.2	145.9	147.8	148.5
142.5°	155.5	155.5	153.6	155.5	158.0
145°	164.4	164.4	164.4	165.7	166.3
147.5°	168.9	169.5	170.1	170.1	170.8
150°	170.1	170.1	170.1	170.1	170.8
152.5°	168.2	167.6	163.8	167.0	167.6
155°	159.3	158.7	153.6	158.0	158.0
157.5°	151.7	151.0	145.9	150.4	151.0
160°	145.9	149.1	144.0	148.5	145.3
162.5°	131.9	138.3	135.1	136.4	131.3
165°	121.1	123.6	123.0	122.3	119.8
167.5°	114.1	116.6	115.3	116.0	112.2
170°	107.1	109.0	109.6	107.7	105.1
172.5°	94.9	96.2	98.1	94.9	94.9
175°	87.9	86.7	86.7	86.7	86.7
177.5°	91.1	91.1	91.8	89.9	89.9
180°	94.9	94.9	94.9	94.9	94.9

(END OF REPORT)