

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: P231410

Luminaire Tested: **SSLED-LD5-15-W-UNV-L835-CD1-U-FRR22**

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: P231410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSLED-LD5-15-W-UNV-L835-CD1-U-FRR22
Description: STEELER WHITE REFRACTOR LENS
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: 14265.0 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.43 / 1.45
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')
CIE Type: Direct

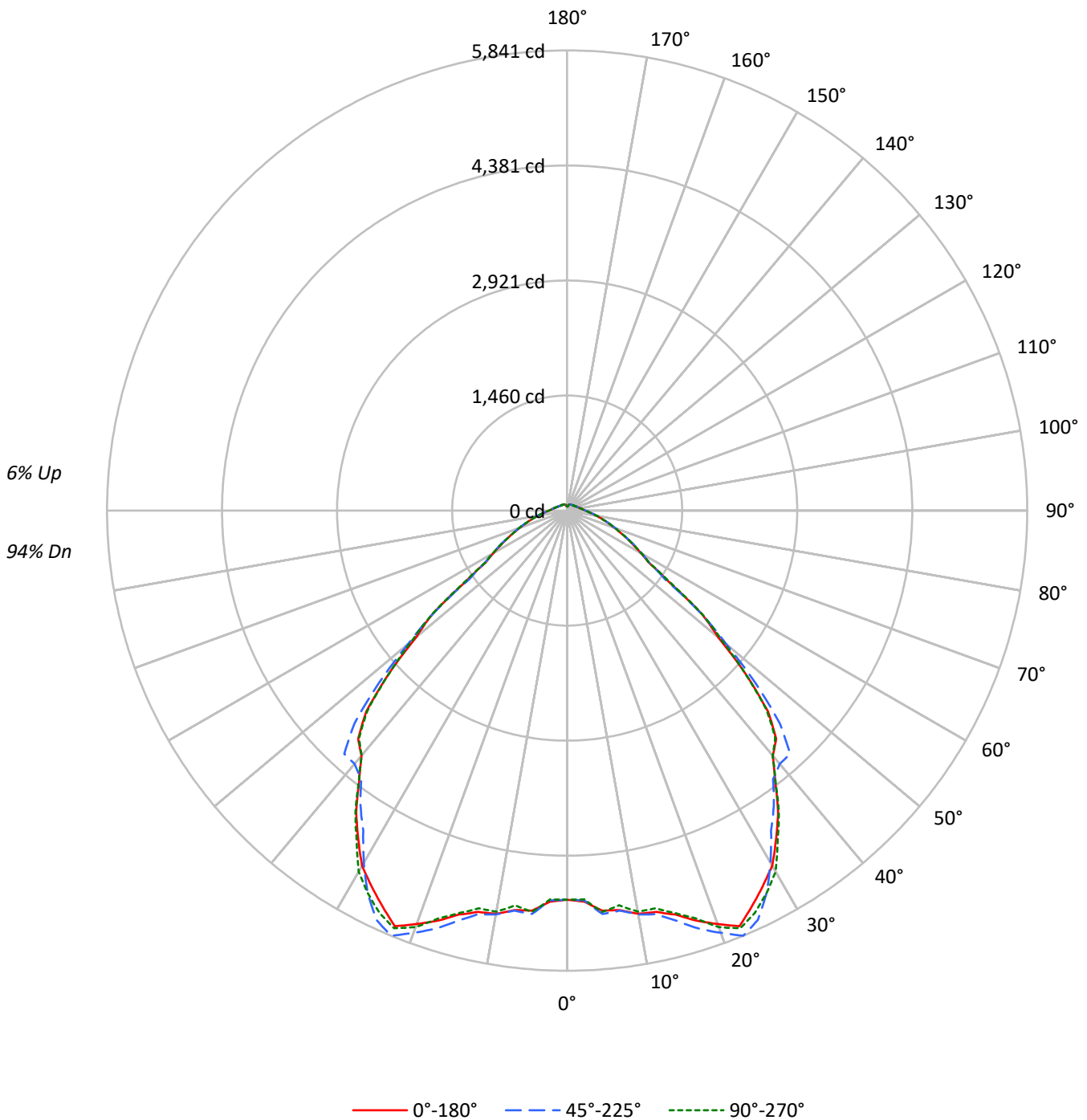
Input Watts (W): 110.74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	109	104	100	97	105	101	98	95	96	93	91	91	89	87	87	85	84	81
2	100	93	87	81	97	90	85	80	86	81	77	82	78	75	78	75	72	70
3	92	83	75	69	89	81	74	69	77	71	67	74	69	65	70	66	63	61
4	85	74	66	60	82	72	65	59	69	63	58	66	61	57	64	59	55	53
5	79	67	59	53	76	65	58	52	63	56	51	60	55	50	58	53	49	47
6	73	61	52	46	71	59	52	46	57	50	45	55	49	44	53	48	44	42
7	68	55	47	41	66	54	47	41	52	45	40	50	44	40	49	43	39	37
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	45	39	35	33
9	59	47	39	34	58	46	38	33	44	38	33	43	37	32	41	36	32	30
10	55	43	35	31	54	42	35	30	41	34	30	40	34	30	38	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20140	20140	20140
5°	19666	19832	19729
10°	19168	19201	19070
15°	18894	19193	18820
20°	19339	19756	19490
25°	18847	19477	19151
30°	17496	17347	17789
35°	15635	15321	15694
40°	13658	14120	13648
45°	12262	12994	12192
50°	8698	9159	8910
55°	5612	5409	5728
60°	4006	4060	4060
65°	3246	3283	3249
70°	2619	2661	2646
75°	2151	2183	2158
80°	1794	1815	1812
85°	1515	1543	1527



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.2	3.4
10°-20°	1534.5	10.8
20°-30°	2595.8	18.2
30°-40°	2902.6	20.3
40°-50°	2743.2	19.2
50°-60°	1508.0	10.6
60°-70°	844.0	5.9
70°-80°	530.8	3.7
80°-90°	323.4	2.3
90°-100°	215.9	1.5
100°-110°	161.0	1.1
110°-120°	123.1	0.9
120°-130°	96.1	0.7
130°-140°	75.4	0.5
140°-150°	57.7	0.4
150°-160°	40.1	0.3
160°-170°	20.8	0.1
170°-180°	5.3	0.0
0°-30°	4617.5	32.4
0°-40°	7520.0	52.7
0°-60°	11771.2	82.5
0°-90°	13469.5	94.4
90°-120°	500.1	3.5
90°-150°	729.3	5.1
90°-180°	796.0	5.6
0°-180°	14265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4939	4939	4939	4939	4939	
5°	5097	5106	5140	5106	5113	487
15°	5309	5358	5393	5334	5288	1521
25°	5546	5744	5731	5824	5635	2542
35°	4668	4569	4574	4584	4686	2903
45°	3603	3572	3818	3541	3583	2672
55°	1572	1563	1516	1589	1605	1501
65°	838	840	847	843	838	835
75°	490	494	498	496	492	526
85°	290	290	295	291	292	255
90°	228	230	232	231	230	126
95°	194	196	197	196	196	154
105°	151	151	151	151	151	160
115°	123	123	123	124	124	122
125°	106	106	106	107	107	95
135°	97	97	97	97	98	75
145°	92	92	92	92	92	58
155°	86	87	86	86	87	40
165°	73	73	72	72	72	21
175°	53	53	52	52	53	5
180°	55	55	55	55	55	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4939.3	4939.3	4939.3	4939.3	4939.3
2.5°	4968.2	4964.5	4951.2	4938.6	4939.3
5°	5096.7	5105.5	5139.5	5106.3	5112.9
7.5°	5114.4	5135.1	5121.8	5093.7	5053.8
10°	5196.4	5203.7	5205.2	5190.5	5169.8
12.5°	5218.5	5286.5	5248.1	5234.8	5172.7
15°	5308.6	5358.1	5392.8	5333.7	5287.9
17.5°	5458.5	5542.7	5564.9	5539.8	5425.3
20°	5583.4	5700.8	5703.7	5714.8	5626.9
22.5°	5711.1	5821.9	5841.1	5861.8	5738.4
25°	5545.7	5743.6	5731.1	5824.1	5635.1
27.5°	5375.8	5518.4	5480.7	5586.3	5477.0
30°	5206.0	5237.7	5161.6	5269.5	5293.1
32.5°	4936.4	4839.6	4818.2	4881.7	4972.6
35°	4668.3	4569.3	4574.5	4584.1	4686.0
37.5°	4336.7	4437.9	4294.6	4465.2	4346.3
40°	4061.2	4217.1	4198.6	4223.0	4058.3
42.5°	3926.8	3919.4	4188.3	3924.6	3908.3
45°	3603.3	3572.3	3818.2	3540.6	3582.7
47.5°	3076.8	3275.4	3245.1	3276.9	3073.8
50°	2505.9	2700.1	2638.8	2748.1	2567.2
52.5°	2156.5	2061.3	2130.7	2090.8	2165.4
55°	1572.3	1562.7	1515.5	1588.6	1604.8
57.5°	1228.9	1235.6	1240.7	1236.3	1233.4
60°	1082.0	1097.5	1096.7	1096.0	1096.7
62.5°	950.5	959.4	969.0	962.3	963.1
65°	837.5	840.5	847.1	842.7	838.2
67.5°	728.2	737.1	740.8	741.5	737.8
70°	638.8	645.5	649.2	647.7	645.5
72.5°	562.8	566.5	573.1	570.9	566.5
75°	490.4	494.1	497.8	496.3	491.9
77.5°	429.8	432.8	435.7	436.5	433.5
80°	377.4	380.3	381.8	379.6	381.1
82.5°	330.1	333.1	334.6	333.8	333.1
85°	289.5	290.2	294.7	291.0	291.7
87.5°	254.8	255.5	257.0	257.0	255.5
90°	228.2	230.4	231.9	231.2	229.7
92.5°	209.7	212.0	212.0	212.0	211.2
95°	194.2	195.7	197.2	196.5	195.7
97.5°	181.7	182.4	183.9	183.2	182.4
100°	169.9	170.6	172.1	171.3	170.6
102.5°	158.8	160.3	161.0	161.0	160.3
105°	150.7	150.7	151.4	151.4	151.4
107.5°	142.5	142.5	143.3	143.3	143.3
110°	135.9	135.9	135.9	135.9	136.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	128.5	129.2	129.2	129.2	130.0
115°	122.6	123.3	123.3	124.1	124.1
117.5°	117.4	117.4	118.2	118.2	118.9
120°	113.0	113.7	113.7	114.5	114.5
122.5°	109.3	109.3	110.0	110.0	110.8
125°	105.6	106.3	106.3	107.1	107.1
127.5°	102.7	103.4	104.1	104.1	104.1
130°	101.2	101.9	101.9	101.9	102.7
132.5°	99.0	99.0	99.0	99.7	100.4
135°	96.7	96.7	96.7	96.7	97.5
137.5°	94.5	95.3	95.3	95.3	95.3
140°	93.1	93.8	93.8	93.8	93.8
142.5°	92.3	93.1	93.1	93.1	93.1
145°	91.6	91.6	91.6	91.6	92.3
147.5°	90.8	90.8	90.8	90.8	90.8
150°	90.1	90.1	89.4	89.4	90.1
152.5°	88.6	88.6	87.9	88.6	88.6
155°	86.4	87.1	86.4	86.4	87.1
157.5°	84.9	84.9	84.9	84.9	84.9
160°	82.0	82.0	81.2	81.2	82.0
162.5°	77.5	77.5	77.5	77.5	77.5
165°	73.1	73.1	72.4	72.4	72.4
167.5°	67.9	67.9	67.9	67.9	67.9
170°	61.3	62.0	61.3	61.3	61.3
172.5°	53.9	53.9	53.9	53.9	53.9
175°	53.2	53.2	52.4	52.4	53.2
177.5°	53.2	53.9	53.9	53.9	53.2
180°	54.7	54.7	54.7	54.7	54.7

(END OF REPORT)