

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: P231475

Luminaire Tested: **SSLED-LD5-15-W-UNV-L850-CD1-U-CLR22**

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: P231475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-5)
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-L850-CD1-U-CLR22
Description: STEELER CLEAR REFRACTOR LENS
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: 15368.0 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 1.48 / 1.49
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')
CIE Type: Direct

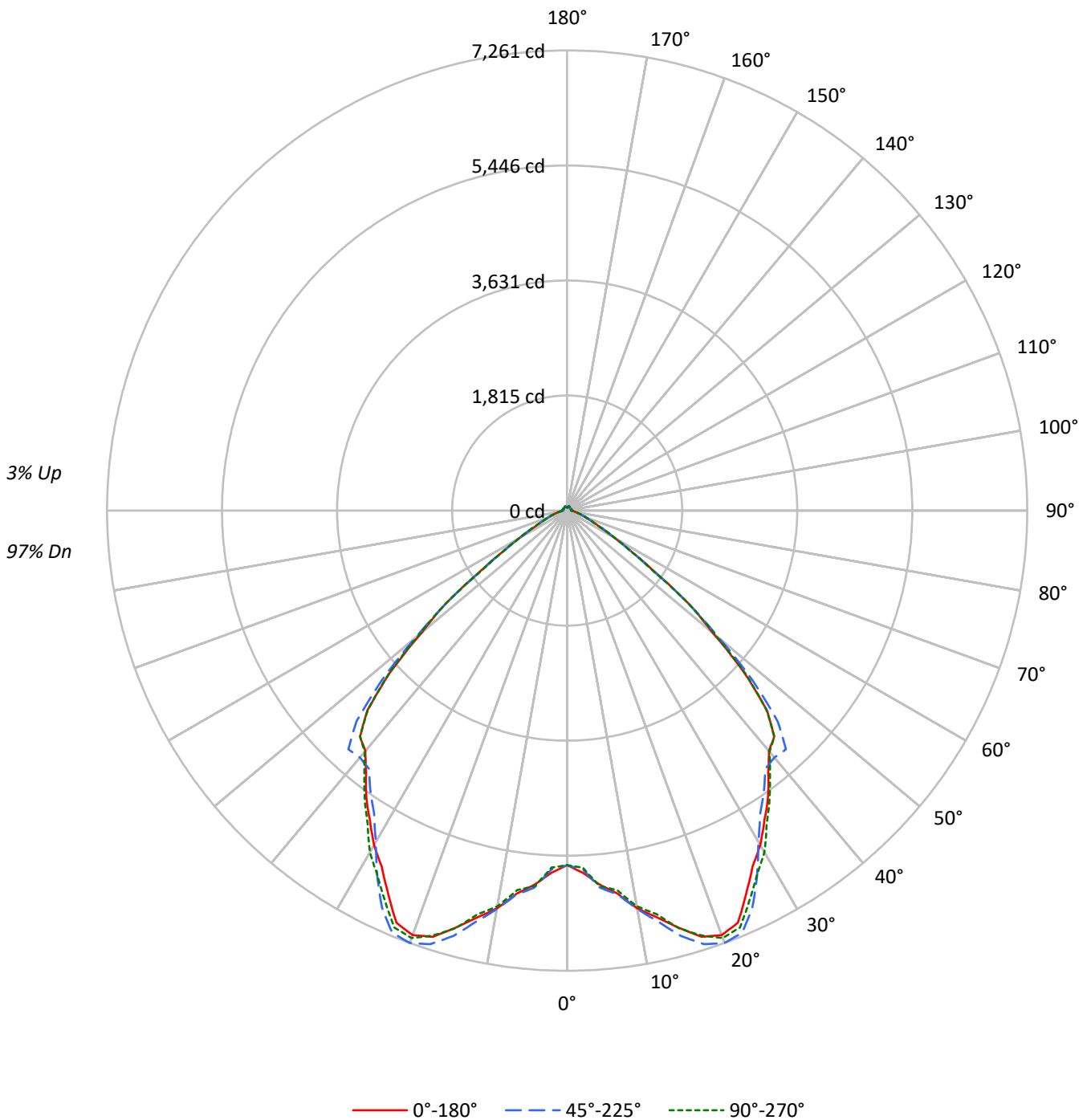
Input Watts (W): 110.74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	115	115	115	110	110	110	104	104	104	100	100	100	97
1	111	107	103	100	108	104	101	99	100	97	95	95	94	92	92	90	89	86
2	103	96	91	86	100	94	89	85	90	86	82	87	83	80	83	81	78	76
3	95	86	80	74	93	85	78	73	81	76	72	78	74	70	76	72	69	67
4	88	78	70	65	86	76	70	64	74	68	63	71	66	62	69	65	61	59
5	82	71	63	57	80	69	62	57	67	61	56	65	59	55	63	58	54	52
6	76	64	56	51	74	63	56	50	61	55	50	59	54	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	49	45	54	49	44	53	48	44	42
8	66	54	46	41	64	53	46	41	52	45	40	50	44	40	49	43	39	38
9	62	50	42	37	60	49	42	37	48	41	36	46	40	36	45	40	36	34
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	42	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22817	22817	22817
5°	22856	23054	22957
10°	23500	23554	23386
15°	24258	24730	24284
20°	24688	25148	24858
25°	22692	23498	23108
30°	20480	20280	20920
35°	18509	18130	18648
40°	16654	17111	16712
45°	15166	15979	15139
50°	10414	10855	10575
55°	6012	5808	5866
60°	3246	3303	3252
65°	1867	1946	1895
70°	1276	1309	1309
75°	904	918	908
80°	674	682	670
85°	482	486	478



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.2	3.8
10°-20°	1957.1	12.7
20°-30°	3139.3	20.4
30°-40°	3452.0	22.5
40°-50°	3359.2	21.9
50°-60°	1610.6	10.5
60°-70°	526.6	3.4
70°-80°	229.5	1.5
80°-90°	106.0	0.7
90°-100°	72.2	0.5
100°-110°	73.3	0.5
110°-120°	66.3	0.4
120°-130°	52.8	0.3
130°-140°	46.6	0.3
140°-150°	42.8	0.3
150°-160°	33.3	0.2
160°-170°	18.1	0.1
170°-180°	4.9	0.0
0°-30°	5673.7	36.9
0°-40°	9125.6	59.4
0°-60°	14095.4	91.7
0°-90°	14957.6	97.3
90°-120°	211.8	1.4
90°-150°	354.1	2.3
90°-180°	410.0	2.7
0°-180°	15368.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5596	5596	5596	5596	5596	
5°	5923	5919	5975	5952	5950	578
15°	6816	6892	6948	6868	6823	1939
25°	6677	6910	6914	6989	6799	3069
35°	5527	5408	5413	5461	5568	3450
45°	4457	4400	4695	4405	4448	3284
55°	1684	1692	1627	1678	1644	1605
65°	482	491	502	500	489	516
75°	206	208	209	208	207	227
85°	92	92	93	93	91	86
90°	64	66	66	67	65	36
95°	61	60	61	63	64	53
105°	75	68	68	65	71	74
115°	64	68	68	68	66	66
125°	56	56	56	57	59	53
135°	60	60	58	60	61	47
145°	68	68	68	68	70	43
155°	72	72	72	72	72	33
165°	64	64	64	63	62	18
175°	50	50	50	50	50	5
180°	51	51	51	51	51	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5595.8	5595.8	5595.8	5595.8	5595.8
2.5°	5720.5	5691.2	5663.5	5643.1	5638.2
5°	5923.4	5919.3	5974.7	5951.9	5949.5
7.5°	6098.6	6109.2	6106.8	6077.4	6039.1
10°	6370.8	6373.2	6385.4	6369.1	6339.8
12.5°	6577.8	6671.5	6642.9	6613.6	6522.3
15°	6815.7	6891.5	6948.5	6867.9	6823.0
17.5°	7050.4	7131.1	7173.4	7153.1	7027.6
20°	7127.8	7253.3	7260.6	7280.2	7176.7
22.5°	7040.6	7184.0	7210.9	7248.4	7120.5
25°	6677.2	6910.2	6914.3	6989.3	6799.4
27.5°	6334.9	6531.3	6489.7	6629.1	6484.9
30°	6093.7	6127.9	6034.2	6210.2	6224.9
32.5°	5793.8	5709.1	5668.3	5751.5	5859.8
35°	5526.6	5407.6	5413.3	5461.4	5568.1
37.5°	5213.6	5296.8	5135.4	5363.6	5256.0
40°	4952.1	5112.6	5088.1	5151.7	4969.2
42.5°	4836.3	4820.9	5111.0	4830.6	4837.2
45°	4456.6	4400.4	4695.4	4405.3	4448.5
47.5°	3799.8	3983.2	3972.6	4037.8	3823.4
50°	3000.4	3187.8	3127.5	3266.1	3046.9
52.5°	2422.7	2342.0	2406.4	2367.2	2422.7
55°	1684.4	1692.5	1627.3	1677.8	1643.6
57.5°	1194.6	1221.5	1197.9	1196.3	1184.0
60°	876.8	880.1	892.3	889.9	878.4
62.5°	641.3	647.8	661.7	660.9	653.5
65°	481.6	490.6	502.0	499.5	488.9
67.5°	375.7	385.4	387.9	389.5	391.1
70°	311.3	314.5	319.4	319.4	319.4
72.5°	259.1	263.2	264.0	264.8	263.2
75°	206.2	207.8	209.4	207.8	207.0
77.5°	170.3	170.3	169.5	168.7	169.5
80°	141.8	142.6	143.4	141.8	141.0
82.5°	115.7	116.5	117.3	116.5	116.5
85°	92.1	92.1	92.9	92.9	91.3
87.5°	75.8	75.8	75.8	76.6	75.8
90°	64.4	66.0	66.0	66.8	65.2
92.5°	57.9	59.5	59.5	61.1	59.5
95°	61.1	60.3	61.1	62.7	63.6
97.5°	68.5	70.1	72.5	75.0	72.5
100°	71.7	77.4	79.0	79.0	74.2
102.5°	70.1	69.3	72.5	70.9	73.3
105°	75.0	68.5	68.5	65.2	70.9
107.5°	66.0	69.3	58.7	69.3	65.2
110°	66.8	65.2	64.4	66.8	67.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	68.5	62.7	67.6	62.7	68.5
115°	64.4	68.5	67.6	67.6	66.0
117.5°	66.8	68.5	70.1	70.9	66.8
120°	65.2	62.7	65.2	66.8	66.8
122.5°	58.7	57.9	58.7	60.3	63.6
125°	56.2	56.2	56.2	57.0	58.7
127.5°	57.0	57.0	56.2	57.0	57.9
130°	59.5	58.7	59.5	59.5	60.3
132.5°	60.3	59.5	57.9	59.5	61.9
135°	60.3	59.5	57.9	59.5	61.1
137.5°	61.1	60.3	60.3	60.3	61.9
140°	62.7	63.6	63.6	63.6	63.6
142.5°	66.0	66.0	66.0	66.0	67.6
145°	68.5	67.6	68.5	68.5	70.1
147.5°	70.9	70.1	70.9	70.9	71.7
150°	72.5	71.7	72.5	72.5	72.5
152.5°	73.3	72.5	73.3	73.3	73.3
155°	72.5	72.5	72.5	72.5	71.7
157.5°	70.9	70.9	70.9	70.9	70.1
160°	69.3	70.1	69.3	69.3	68.5
162.5°	66.8	66.8	66.8	66.0	66.0
165°	64.4	63.6	63.6	62.7	61.9
167.5°	61.1	60.3	59.5	59.5	58.7
170°	56.2	56.2	56.2	55.4	55.4
172.5°	51.3	50.5	50.5	50.5	49.7
175°	50.5	50.5	49.7	49.7	50.5
177.5°	50.5	50.5	51.3	50.5	50.5
180°	51.3	51.3	51.3	51.3	51.3

(END OF REPORT)