

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: P231473

Luminaire Tested: **SSLED-LD5-15-W-UNV-L835-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: P231473
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-L835-CD1-U-CLR22
Description: STEELER CLEAR 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: 13929.0 lumens
Efficiency: N/A
Efficacy: 125.8 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

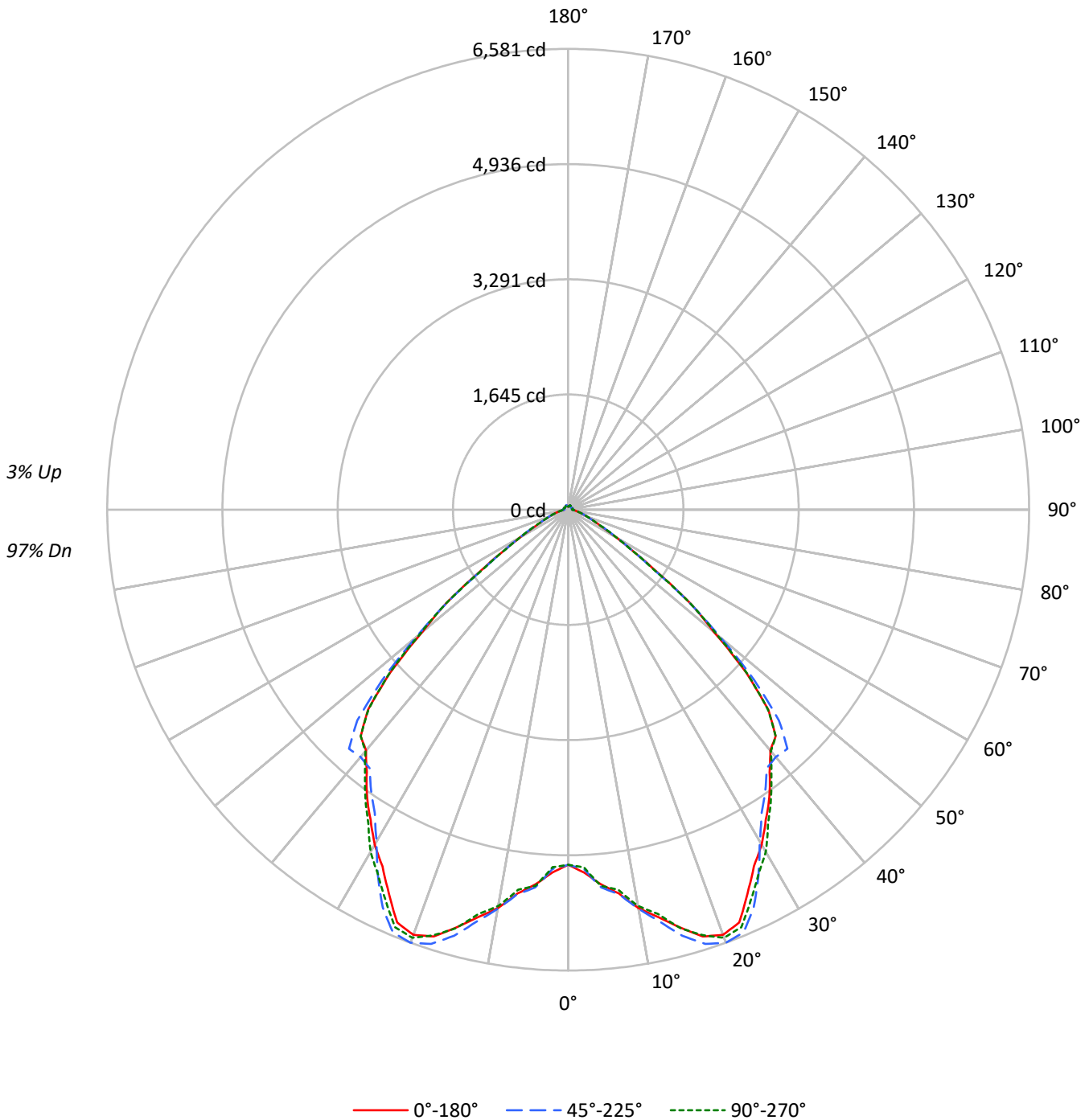
Input Watts (W): 110.74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20680	20680	20680
5°	20716	20896	20807
10°	21299	21348	21196
15°	21986	22415	22010
20°	22377	22794	22530
25°	20567	21298	20944
30°	18562	18381	18961
35°	16776	16432	16902
40°	15095	15509	15147
45°	13746	14482	13721
50°	9439	9839	9585
55°	5449	5264	5317
60°	2942	2994	2948
65°	1692	1763	1717
70°	1156	1187	1187
75°	820	832	823
80°	611	618	608
85°	437	441	433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.2	3.8
10°-20°	1773.9	12.7
20°-30°	2845.3	20.4
30°-40°	3128.7	22.5
40°-50°	3044.6	21.9
50°-60°	1459.8	10.5
60°-70°	477.3	3.4
70°-80°	208.0	1.5
80°-90°	96.1	0.7
90°-100°	65.4	0.5
100°-110°	66.5	0.5
110°-120°	60.1	0.4
120°-130°	47.9	0.3
130°-140°	42.2	0.3
140°-150°	38.8	0.3
150°-160°	30.2	0.2
160°-170°	16.4	0.1
170°-180°	4.5	0.0
0°-30°	5142.4	36.9
0°-40°	8271.1	59.4
0°-60°	12775.5	91.7
0°-90°	13557.0	97.3
90°-120°	192.0	1.4
90°-150°	320.9	2.3
90°-180°	372.0	2.7
0°-180°	13929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5072	5072	5072	5072	5072	
5°	5369	5365	5415	5395	5392	524
15°	6178	6246	6298	6225	6184	1758
25°	6052	6263	6267	6335	6163	2782
35°	5009	4901	4906	4950	5047	3127
45°	4039	3988	4256	3993	4032	2976
55°	1527	1534	1475	1521	1490	1454
65°	436	445	455	453	443	467
75°	187	188	190	188	188	206
85°	84	84	84	84	83	78
90°	58	60	60	61	59	33
95°	55	55	55	57	58	48
105°	68	62	62	59	64	67
115°	58	62	61	61	60	60
125°	51	51	51	52	53	48
135°	55	54	52	54	55	43
145°	62	61	62	62	64	39
155°	66	66	66	66	65	30
165°	58	58	58	57	56	17
175°	46	46	45	45	46	5
180°	46	46	46	46	46	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5071.8	5071.8	5071.8	5071.8	5071.8
2.5°	5184.9	5158.3	5133.1	5114.7	5110.3
5°	5368.8	5365.1	5415.3	5394.6	5392.4
7.5°	5527.6	5537.2	5534.9	5508.3	5473.6
10°	5774.2	5776.5	5787.5	5772.8	5746.2
12.5°	5961.8	6046.8	6020.9	5994.3	5911.6
15°	6177.5	6246.2	6297.9	6224.8	6184.2
17.5°	6390.2	6463.3	6501.7	6483.3	6369.5
20°	6460.4	6574.1	6580.8	6598.5	6504.7
22.5°	6381.4	6511.3	6535.7	6569.7	6453.7
25°	6051.9	6263.2	6266.9	6334.8	6162.7
27.5°	5741.7	5919.7	5882.1	6008.4	5877.6
30°	5523.1	5554.1	5469.2	5628.7	5642.0
32.5°	5251.3	5174.5	5137.6	5212.9	5311.1
35°	5009.1	4901.2	4906.4	4950.0	5046.7
37.5°	4725.5	4800.8	4654.5	4861.4	4763.9
40°	4488.4	4633.9	4611.7	4669.3	4503.9
42.5°	4383.5	4369.5	4632.4	4378.3	4384.2
45°	4039.3	3988.3	4255.7	3992.8	4031.9
47.5°	3444.0	3610.2	3600.6	3659.7	3465.4
50°	2719.5	2889.3	2834.7	2960.2	2761.6
52.5°	2195.8	2122.7	2181.0	2145.6	2195.8
55°	1526.7	1534.0	1474.9	1520.7	1489.7
57.5°	1082.8	1107.1	1085.7	1084.2	1073.2
60°	794.7	797.7	808.7	806.5	796.2
62.5°	581.3	587.2	599.7	599.0	592.3
65°	436.5	444.6	455.0	452.8	443.1
67.5°	340.5	349.3	351.6	353.0	354.5
70°	282.1	285.1	289.5	289.5	289.5
72.5°	234.9	238.6	239.3	240.0	238.6
75°	186.9	188.3	189.8	188.3	187.6
77.5°	154.4	154.4	153.6	152.9	153.6
80°	128.5	129.3	130.0	128.5	127.8
82.5°	104.9	105.6	106.4	105.6	105.6
85°	83.5	83.5	84.2	84.2	82.7
87.5°	68.7	68.7	68.7	69.4	68.7
90°	58.3	59.8	59.8	60.6	59.1
92.5°	52.4	53.9	53.9	55.4	53.9
95°	55.4	54.7	55.4	56.9	57.6
97.5°	62.0	63.5	65.7	67.9	65.7
100°	65.0	70.2	71.6	71.6	67.2
102.5°	63.5	62.8	65.7	64.3	66.5
105°	67.9	62.0	62.0	59.1	64.3
107.5°	59.8	62.8	53.2	62.8	59.1
110°	60.6	59.1	58.3	60.6	61.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	62.0	56.9	61.3	56.9	62.0
115°	58.3	62.0	61.3	61.3	59.8
117.5°	60.6	62.0	63.5	64.3	60.6
120°	59.1	56.9	59.1	60.6	60.6
122.5°	53.2	52.4	53.2	54.7	57.6
125°	51.0	51.0	51.0	51.7	53.2
127.5°	51.7	51.7	51.0	51.7	52.4
130°	53.9	53.2	53.9	53.9	54.7
132.5°	54.7	53.9	52.4	53.9	56.1
135°	54.7	53.9	52.4	53.9	55.4
137.5°	55.4	54.7	54.7	54.7	56.1
140°	56.9	57.6	57.6	57.6	57.6
142.5°	59.8	59.8	59.8	59.8	61.3
145°	62.0	61.3	62.0	62.0	63.5
147.5°	64.3	63.5	64.3	64.3	65.0
150°	65.7	65.0	65.7	65.7	65.7
152.5°	66.5	65.7	66.5	66.5	66.5
155°	65.7	65.7	65.7	65.7	65.0
157.5°	64.3	64.3	64.3	64.3	63.5
160°	62.8	63.5	62.8	62.8	62.0
162.5°	60.6	60.6	60.6	59.8	59.8
165°	58.3	57.6	57.6	56.9	56.1
167.5°	55.4	54.7	53.9	53.9	53.2
170°	51.0	51.0	51.0	50.2	50.2
172.5°	46.5	45.8	45.8	45.8	45.1
175°	45.8	45.8	45.1	45.1	45.8
177.5°	45.8	45.8	46.5	45.8	45.8
180°	46.5	46.5	46.5	46.5	46.5

(END OF REPORT)