

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: P231485

Luminaire Tested: **SSLED-LD5-36-W-UNV-L835-CD2-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: P231485
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-LD5-36-W-UNV-L835-CD2-U-CLR22
Description: STEELER CLEAR REFRACTOR LENS
Light Source: (240) 3500 CCT, 80 CRI LEDS
Ballast/Driver: (2) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32371.0 lumens
Efficiency: N/A
Efficacy: 97.0 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

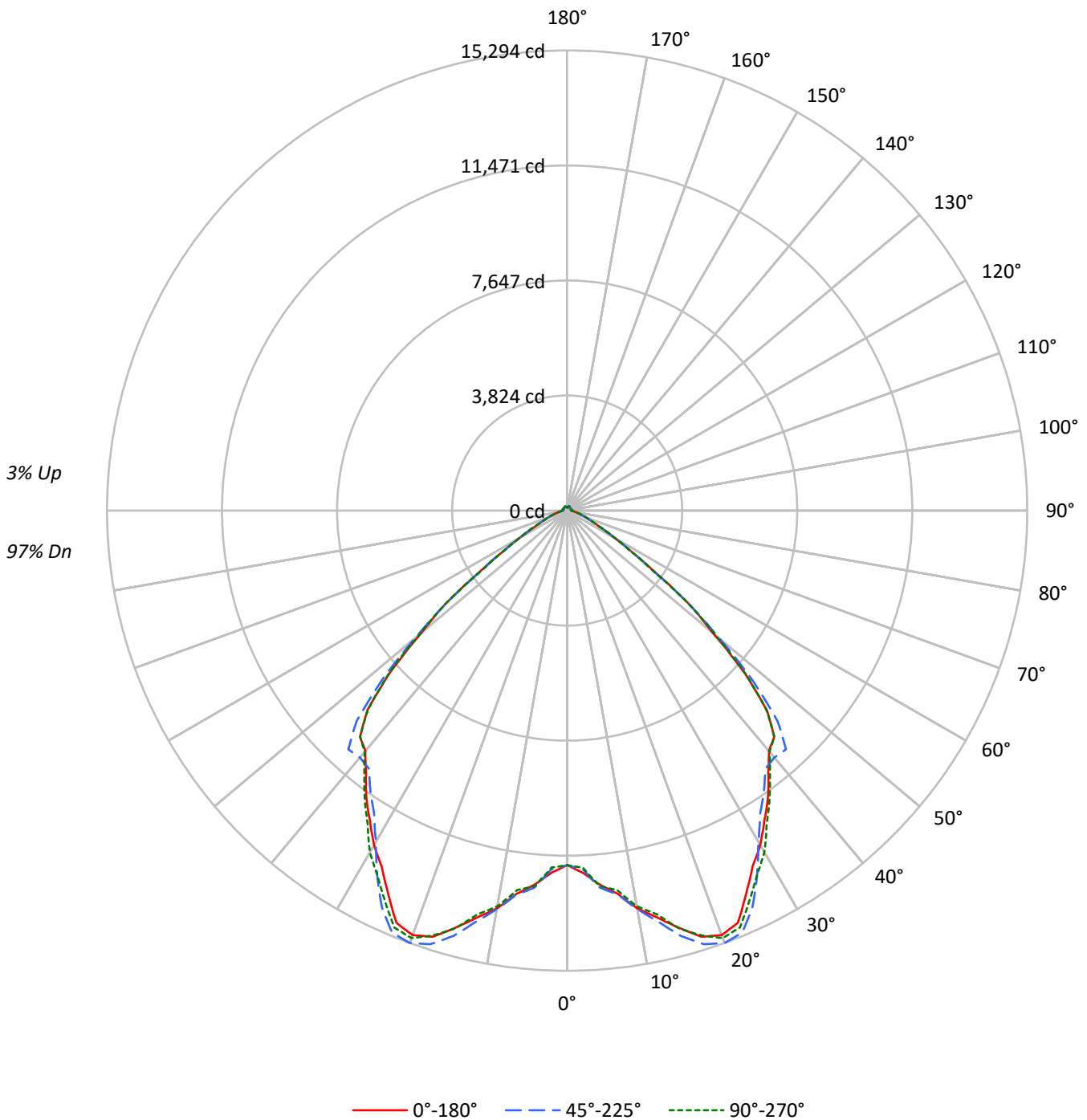
Input Watts (W): 333.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	48062	48062	48062
5°	48144	48562	48356
10°	49500	49614	49260
15°	51096	52092	51151
20°	52003	52973	52360
25°	47799	49496	48674
30°	43138	42717	44067
35°	38987	38188	39280
40°	35080	36044	35201
45°	31946	33658	31888
50°	21936	22865	22275
55°	12663	12234	12356
60°	6837	6958	6850
65°	3932	4098	3992
70°	2688	2759	2759
75°	1905	1935	1912
80°	1420	1436	1412
85°	1015	1024	1006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1215.9	3.8
10°-20°	4122.5	12.7
20°-30°	6612.5	20.4
30°-40°	7271.2	22.5
40°-50°	7075.7	21.9
50°-60°	3392.5	10.5
60°-70°	1109.3	3.4
70°-80°	483.5	1.5
80°-90°	223.3	0.7
90°-100°	152.1	0.5
100°-110°	154.4	0.5
110°-120°	139.7	0.4
120°-130°	111.3	0.3
130°-140°	98.2	0.3
140°-150°	90.2	0.3
150°-160°	70.1	0.2
160°-170°	38.1	0.1
170°-180°	10.4	0.0
0°-30°	11950.9	36.9
0°-40°	19222.1	59.4
0°-60°	29690.4	91.7
0°-90°	31506.6	97.3
90°-120°	446.2	1.4
90°-150°	745.9	2.3
90°-180°	864.0	2.7
0°-180°	32371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11787	11787	11787	11787	11787	
5°	12477	12468	12585	12537	12532	###
15°	14356	14516	14636	14466	14372	4085
25°	14065	14556	14564	14722	14322	6465
35°	11641	11390	11402	11504	11729	7267
45°	9387	9269	9890	9279	9370	6917
55°	3548	3565	3428	3534	3462	3380
65°	1014	1033	1057	1052	1030	1086
75°	434	438	441	438	436	479
85°	194	194	196	196	192	181
90°	136	139	139	141	137	76
95°	129	127	129	132	134	111
105°	158	144	144	137	149	156
115°	136	144	142	142	139	139
125°	118	118	118	120	124	111
135°	127	125	122	125	129	99
145°	144	142	144	144	148	90
155°	153	153	153	153	151	70
165°	136	134	134	132	130	38
175°	106	106	105	105	106	10
180°	108	108	108	108	108	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11787.0	11787.0	11787.0	11787.0	11787.0
2.5°	12049.6	11987.8	11929.4	11886.5	11876.2
5°	12477.0	12468.4	12585.1	12537.1	12531.9
7.5°	12846.0	12868.3	12863.2	12801.4	12720.7
10°	13419.3	13424.5	13450.2	13415.9	13354.1
12.5°	13855.3	14052.7	13992.6	13930.8	13738.6
15°	14356.5	14516.2	14636.3	14466.4	14372.0
17.5°	14850.9	15020.8	15110.1	15067.1	14802.8
20°	15013.9	15278.3	15293.7	15334.9	15116.9
22.5°	14830.3	15132.4	15189.0	15268.0	14998.5
25°	14064.7	14555.6	14564.2	14722.1	14322.2
27.5°	13343.8	13757.5	13669.9	13963.5	13659.6
30°	12835.7	12907.8	12710.4	13081.2	13112.1
32.5°	12204.1	12025.6	11939.7	12114.8	12343.1
35°	11641.1	11390.5	11402.5	11503.8	11728.6
37.5°	10982.0	11157.0	10817.2	11297.8	11071.2
40°	10431.0	10769.1	10717.6	10851.5	10467.0
42.5°	10187.2	10154.6	10765.7	10175.2	10188.9
45°	9387.4	9268.9	9890.3	9279.2	9370.2
47.5°	8003.9	8390.1	8367.8	8505.1	8053.7
50°	6320.0	6714.8	6587.8	6879.6	6417.9
52.5°	5103.1	4933.1	5068.7	4986.3	5103.1
55°	3547.9	3565.1	3427.8	3534.2	3462.1
57.5°	2516.3	2573.0	2523.2	2519.8	2494.0
60°	1846.9	1853.8	1879.5	1874.4	1850.4
62.5°	1350.9	1364.6	1393.8	1392.1	1376.6
65°	1014.4	1033.3	1057.3	1052.2	1029.9
67.5°	791.3	811.9	817.0	820.5	823.9
70°	655.7	662.6	672.9	672.9	672.9
72.5°	545.8	554.4	556.1	557.9	554.4
75°	434.3	437.7	441.1	437.7	436.0
77.5°	358.7	358.7	357.0	355.3	357.0
80°	298.7	300.4	302.1	298.7	296.9
82.5°	243.7	245.5	247.2	245.5	245.5
85°	194.0	194.0	195.7	195.7	192.2
87.5°	159.6	159.6	159.6	161.3	159.6
90°	135.6	139.0	139.0	140.8	137.3
92.5°	121.9	125.3	125.3	128.7	125.3
95°	128.7	127.0	128.7	132.2	133.9
97.5°	144.2	147.6	152.8	157.9	152.8
100°	151.0	163.1	166.5	166.5	156.2
102.5°	147.6	145.9	152.8	149.3	154.5
105°	157.9	144.2	144.2	137.3	149.3
107.5°	139.0	145.9	123.6	145.9	137.3
110°	140.8	137.3	135.6	140.8	142.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	144.2	132.2	142.5	132.2	144.2
115°	135.6	144.2	142.5	142.5	139.0
117.5°	140.8	144.2	147.6	149.3	140.8
120°	137.3	132.2	137.3	140.8	140.8
122.5°	123.6	121.9	123.6	127.0	133.9
125°	118.4	118.4	118.4	120.2	123.6
127.5°	120.2	120.2	118.4	120.2	121.9
130°	125.3	123.6	125.3	125.3	127.0
132.5°	127.0	125.3	121.9	125.3	130.5
135°	127.0	125.3	121.9	125.3	128.7
137.5°	128.7	127.0	127.0	127.0	130.5
140°	132.2	133.9	133.9	133.9	133.9
142.5°	139.0	139.0	139.0	139.0	142.5
145°	144.2	142.5	144.2	144.2	147.6
147.5°	149.3	147.6	149.3	149.3	151.0
150°	152.8	151.0	152.8	152.8	152.8
152.5°	154.5	152.8	154.5	154.5	154.5
155°	152.8	152.8	152.8	152.8	151.0
157.5°	149.3	149.3	149.3	149.3	147.6
160°	145.9	147.6	145.9	145.9	144.2
162.5°	140.8	140.8	140.8	139.0	139.0
165°	135.6	133.9	133.9	132.2	130.5
167.5°	128.7	127.0	125.3	125.3	123.6
170°	118.4	118.4	118.4	116.7	116.7
172.5°	108.1	106.4	106.4	106.4	104.7
175°	106.4	106.4	104.7	104.7	106.4
177.5°	106.4	106.4	108.1	106.4	106.4
180°	108.1	108.1	108.1	108.1	108.1

(END OF REPORT)