

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: P231527

Luminaire Tested: **SSLED-LD5-36-W-UNV-L835-CD2-U-CLR22-FRCDL22**

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: P231527  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-7)  
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-FRCDL22  
Description: STEELER CLEAR REFRACTOR LENS AND CIRCULAR DROP  
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: 30329.0 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.32 / 1.45  
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')  
CIE Type: Semi-Direct

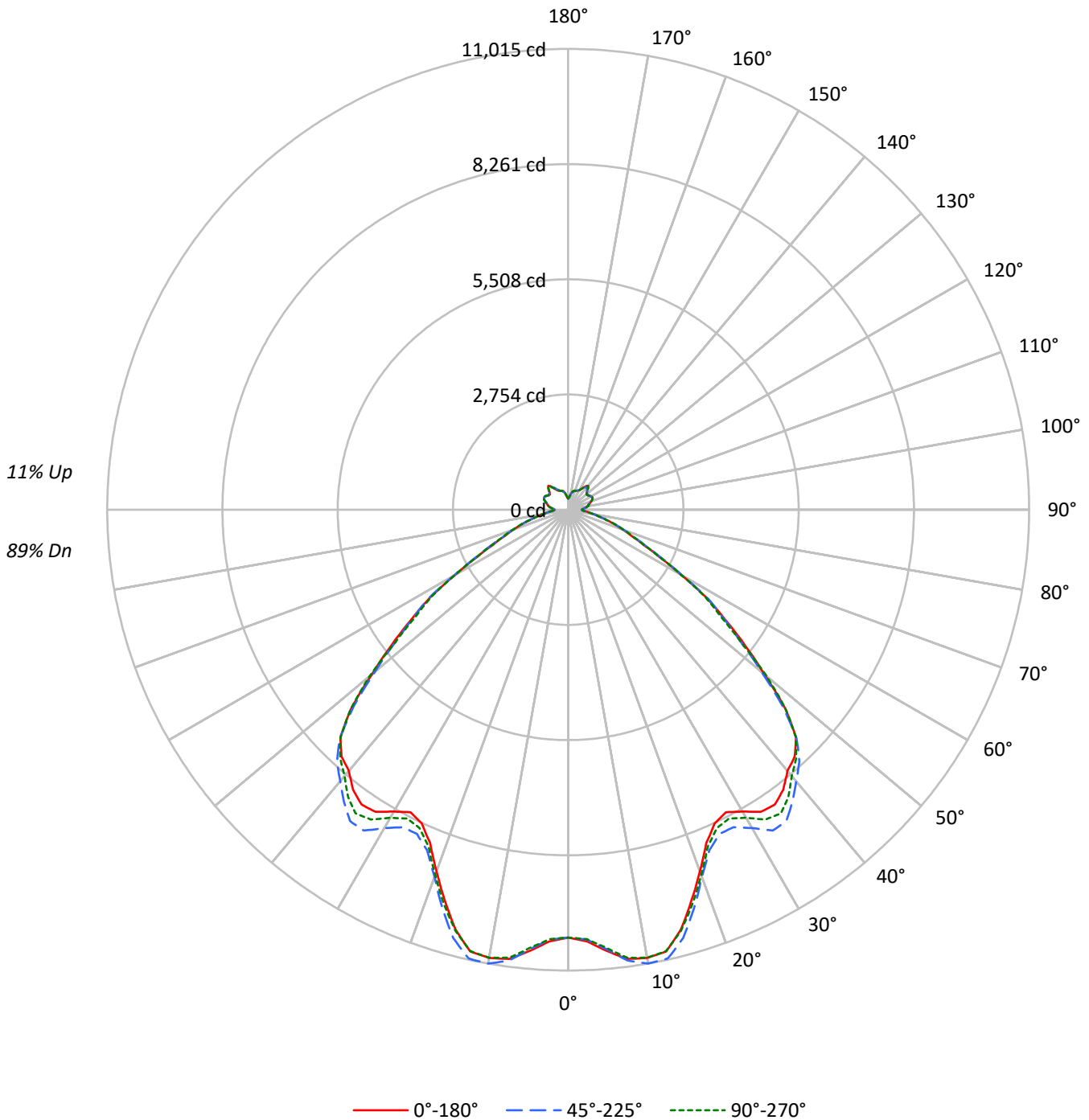
Input Watts (W): 333.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	107	103	99	95	103	99	96	93	93	90	88	87	85	83	82	80	79	76
2	98	91	85	79	95	88	82	78	83	78	74	78	74	71	73	70	68	65
3	90	80	73	67	87	78	71	66	73	68	63	69	65	61	65	62	58	56
4	83	72	63	57	80	70	62	56	66	59	54	62	57	52	59	54	51	48
5	76	64	56	50	73	62	55	49	59	52	47	56	50	46	53	48	44	42
6	70	58	49	43	68	56	48	43	53	47	42	51	45	40	48	43	39	37
7	65	53	44	38	63	51	43	38	49	42	37	46	40	36	44	39	35	33
8	61	48	40	34	59	47	39	34	45	38	33	42	36	32	40	35	31	29
9	57	44	36	31	55	43	35	30	41	34	30	39	33	29	37	32	28	26
10	53	40	33	28	51	40	32	27	38	31	27	36	30	26	35	29	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	41694	41694	41694
5°	40854	40688	40569
10°	40124	40631	40112
15°	36991	37730	37065
20°	31868	32331	32189
25°	28130	29057	28550
30°	27991	29525	28573
35°	28824	30434	29670
40°	27415	28500	27946
45°	26205	26251	26170
50°	21245	20947	21466
55°	16339	16155	15855
60°	11610	11686	11514
65°	7704	7917	7797
70°	5707	5770	5791
75°	4148	4156	4156
80°	2963	2922	2946
85°	2066	2075	2075



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1021.3	3.4
10°-20°	2908.7	9.6
20°-30°	4008.3	13.2
30°-40°	5452.4	18.0
40°-50°	5812.0	19.2
50°-60°	4099.6	13.5
60°-70°	2092.5	6.9
70°-80°	1024.9	3.4
80°-90°	464.8	1.5
90°-100°	429.1	1.4
100°-110°	551.3	1.8
110°-120°	623.7	2.1
120°-130°	536.9	1.8
130°-140°	499.5	1.6
140°-150°	407.1	1.3
150°-160°	237.0	0.8
160°-170°	127.9	0.4
170°-180°	31.9	0.1
0°-30°	7938.4	26.2
0°-40°	13390.8	44.2
0°-60°	23302.4	76.8
0°-90°	26884.6	88.6
90°-120°	1604.0	5.3
90°-150°	3047.5	10.0
90°-180°	3444.0	11.4
0°-180°	30329.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10225	10225	10225	10225	10225	
5°	10588	10565	10545	10510	10514	###
15°	10394	10484	10601	10488	10414	2882
25°	8277	8565	8550	8653	8401	3901
35°	8607	8626	9087	8754	8859	5313
45°	7700	7671	7714	7743	7690	5764
55°	4578	4621	4526	4544	4442	4113
65°	1988	2010	2043	2022	2012	2064
75°	946	942	948	941	948	1023
85°	395	396	396	395	396	373
90°	326	328	326	330	330	184
95°	390	388	386	391	393	335
105°	524	518	512	513	517	553
115°	640	638	637	638	645	624
125°	590	589	592	592	596	536
135°	644	642	644	654	656	501
145°	654	645	656	645	645	410
155°	500	501	506	501	505	234
165°	455	451	451	448	455	128
175°	309	307	304	307	307	32
180°	266	266	266	266	266	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10225.3	10225.3	10225.3	10225.3	10225.3
2.5°	10328.3	10311.1	10283.7	10276.8	10271.7
5°	10587.5	10565.2	10544.6	10510.3	10513.7
7.5°	10831.3	10845.0	10869.0	10827.8	10800.4
10°	10877.6	10929.1	11014.9	10944.5	10874.2
12.5°	10815.8	10898.2	10989.2	10886.2	10803.8
15°	10393.5	10484.5	10601.2	10487.9	10414.1
17.5°	9796.2	9873.4	9995.3	9868.3	9878.6
20°	9200.6	9284.7	9334.4	9361.9	9293.2
22.5°	8622.1	8843.5	8807.5	8913.9	8713.1
25°	8277.1	8565.4	8550.0	8653.0	8400.7
27.5°	8151.8	8488.2	8553.4	8558.6	8320.0
30°	8328.6	8462.5	8785.2	8558.6	8501.9
32.5°	8563.7	8515.7	9094.1	8654.7	8780.0
35°	8606.6	8625.5	9087.3	8754.3	8859.0
37.5°	8438.4	8647.8	8800.6	8781.7	8644.4
40°	8151.8	8488.2	8474.5	8572.3	8309.7
42.5°	8011.0	8175.8	8175.8	8246.2	8062.5
45°	7700.3	7671.1	7714.0	7743.2	7690.0
47.5°	7034.3	6979.4	6951.9	7053.2	7048.0
50°	6121.1	6085.1	6035.3	6155.4	6184.6
52.5°	5324.7	5249.1	5202.8	5237.1	5204.5
55°	4578.0	4620.9	4526.5	4543.6	4442.4
57.5°	3917.1	4013.2	3970.3	3956.6	3881.1
60°	3136.1	3203.0	3156.7	3177.3	3110.3
62.5°	2466.6	2513.0	2533.6	2525.0	2490.7
65°	1987.7	2010.0	2042.7	2022.1	2011.8
67.5°	1641.0	1661.6	1670.2	1665.0	1671.9
70°	1392.1	1397.2	1407.5	1392.1	1412.7
72.5°	1165.5	1175.8	1175.8	1177.5	1187.8
75°	945.8	942.4	947.5	940.7	947.5
77.5°	760.4	760.4	757.0	753.6	763.9
80°	623.1	616.2	614.5	612.8	619.7
82.5°	496.1	497.8	497.8	496.1	494.4
85°	394.8	396.5	396.5	394.8	396.5
87.5°	339.9	339.9	341.6	341.6	339.9
90°	326.1	327.9	326.1	329.6	329.6
92.5°	348.5	348.5	350.2	353.6	351.9
95°	389.7	387.9	386.2	391.4	393.1
97.5°	429.1	427.4	430.8	434.3	437.7
100°	473.8	473.8	477.2	478.9	482.3
102.5°	492.6	492.6	490.9	496.1	499.5
105°	523.5	518.4	511.5	513.2	516.7
107.5°	547.6	545.9	544.1	547.6	549.3
110°	583.6	581.9	581.9	581.9	585.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	619.7	619.7	617.9	619.7	623.1
115°	640.3	638.5	636.8	638.5	645.4
117.5°	645.4	645.4	642.0	647.1	652.3
120°	636.8	635.1	635.1	638.5	643.7
122.5°	614.5	612.8	612.8	616.2	621.4
125°	590.5	588.8	592.2	592.2	595.6
127.5°	573.3	575.0	578.5	575.0	576.8
130°	576.8	578.5	585.3	580.2	580.2
132.5°	595.6	597.3	609.4	605.9	605.9
135°	643.7	642.0	643.7	654.0	655.7
137.5°	698.6	684.9	666.0	700.3	708.9
140°	745.0	707.2	700.3	715.8	741.5
142.5°	710.6	690.0	672.9	693.5	708.9
145°	654.0	645.4	655.7	645.4	645.4
147.5°	588.8	600.8	623.1	592.2	590.5
150°	539.0	563.0	571.6	554.4	542.4
152.5°	516.7	527.0	532.1	523.5	523.5
155°	499.5	501.2	506.4	501.2	504.7
157.5°	487.5	492.6	492.6	492.6	490.9
160°	477.2	484.1	482.3	482.3	478.9
162.5°	470.3	473.8	472.0	472.0	472.0
165°	454.9	451.4	451.4	448.0	454.9
167.5°	429.1	424.0	424.0	422.3	427.4
170°	396.5	396.5	394.8	394.8	391.4
172.5°	343.3	341.6	339.9	339.9	339.9
175°	309.0	307.3	303.8	307.3	307.3
177.5°	283.2	283.2	284.9	281.5	281.5
180°	266.1	266.1	266.1	266.1	266.1

(END OF REPORT)