

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: P231466

Luminaire Tested: **SSLED-LD5-36-W-UNV-L850-CD2-U-FRR22-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: P231466  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-4)  
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-L850-CD2-U-FRR22-FRCDL22  
Description: STEELER WHITE REFRACTOR LENS AND CIRCULAR DROP  
Light Source: (240) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: (2) ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34431.0 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.16 / 1.37  
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')  
CIE Type: Semi-Direct

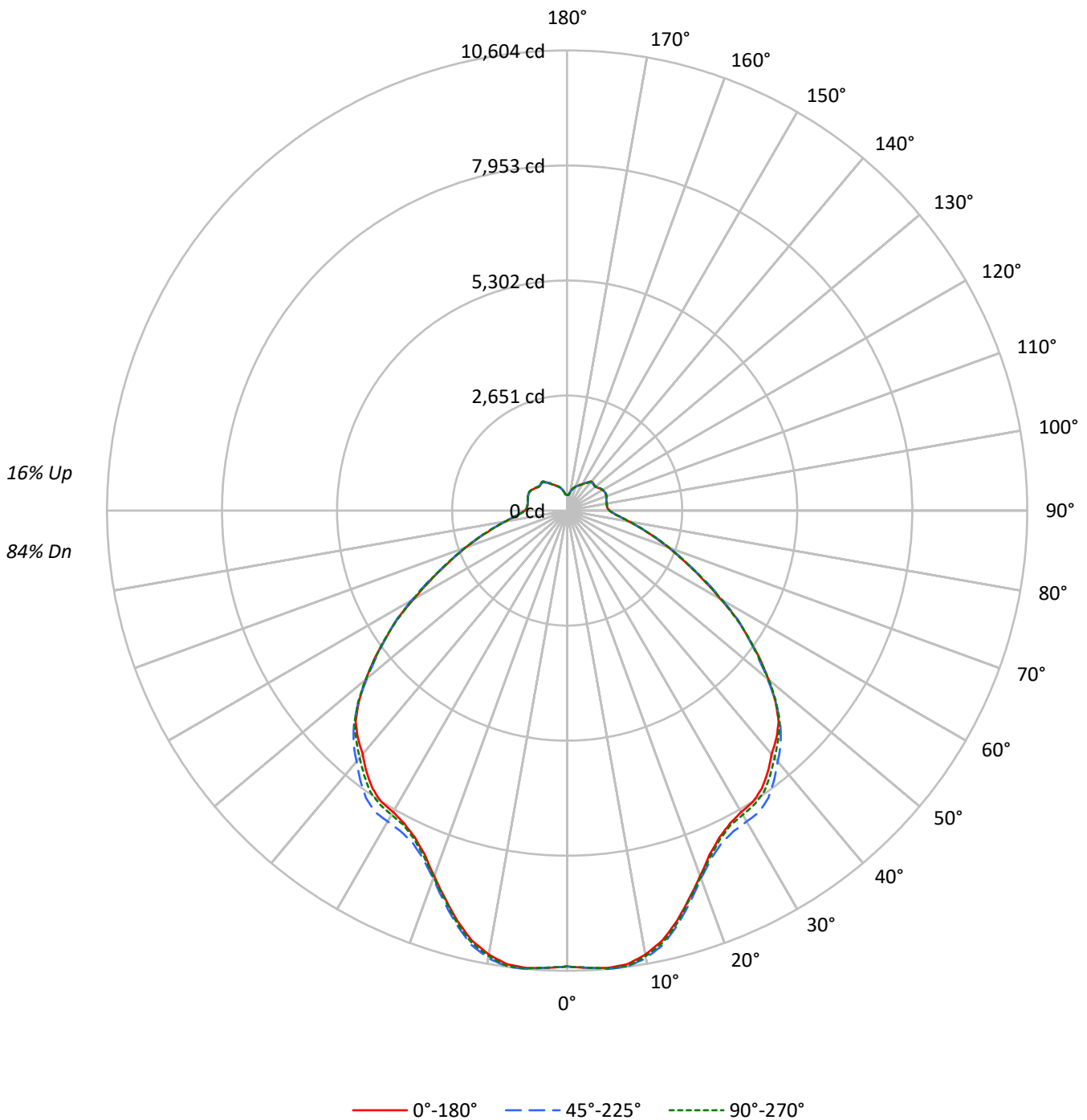
Input Watts (W): 333.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	88	88	88	84
1	104	100	95	91	100	96	92	88	89	85	82	82	79	77	76	74	72	69
2	95	87	80	74	91	83	77	72	77	72	68	72	68	64	66	63	60	57
3	87	76	68	61	83	73	66	60	68	62	57	63	58	54	59	55	51	48
4	79	67	59	52	76	65	57	51	60	54	48	56	51	46	52	48	44	41
5	73	60	51	45	70	58	50	44	54	47	42	51	45	40	47	42	38	36
6	67	54	45	39	64	52	44	38	49	42	37	46	40	35	43	38	34	31
7	62	49	40	34	60	47	39	34	44	37	32	42	36	31	39	34	30	28
8	58	45	36	30	55	43	35	30	41	34	29	38	32	28	36	31	27	25
9	54	41	33	27	52	40	32	27	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	29	24	34	28	23	33	27	23	31	26	22	20

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

	0°	45°	90°
0°	42837	42837	42837
5°	40823	40918	40866
10°	38319	38626	38459
15°	34829	35112	34984
20°	31042	31232	31134
25°	28230	28668	28365
30°	26956	27803	27211
35°	26190	27072	26494
40°	24649	25388	25012
45°	23454	23634	23583
50°	21022	20910	21055
55°	18149	18156	18230
60°	15123	15312	15207
65°	12376	12486	12420
70°	10179	10241	10249
75°	8290	8399	8399
80°	6853	6907	6916
85°	5928	5978	5918



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1006.6	2.9
10°-20°	2753.4	8.0
20°-30°	3915.1	11.4
30°-40°	4945.9	14.4
40°-50°	5300.2	15.4
50°-60°	4545.6	13.2
60°-70°	3215.7	9.3
70°-80°	2041.3	5.9
80°-90°	1272.1	3.7
90°-100°	1022.6	3.0
100°-110°	993.1	2.9
110°-120°	958.2	2.8
120°-130°	811.9	2.4
130°-140°	666.4	1.9
140°-150°	494.2	1.4
150°-160°	299.5	0.9
160°-170°	151.3	0.4
170°-180°	37.7	0.1
0°-30°	7675.1	22.3
0°-40°	12621.0	36.7
0°-60°	22466.8	65.3
0°-90°	28995.9	84.2
90°-120°	2973.9	8.6
90°-150°	4946.5	14.4
90°-180°	5435.0	15.8
0°-180°	34431.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10506	10506	10506	10506	10506	
5°	10580	10593	10604	10598	10591	###
15°	9786	9799	9866	9841	9830	2740
25°	8307	8432	8436	8487	8346	3864
35°	7820	7848	8083	7911	7911	4868
45°	6892	6907	6945	6960	6930	5258
55°	5085	5083	5087	5061	5108	4553
65°	3193	3212	3222	3214	3204	3191
75°	1890	1911	1915	1915	1915	2027
85°	1133	1131	1142	1133	1131	992
90°	975	977	981	979	975	538
95°	924	926	930	930	928	756
105°	934	934	936	938	939	990
115°	968	970	972	975	977	955
125°	902	903	907	907	911	807
135°	860	860	860	864	867	666
145°	782	786	784	780	776	495
155°	640	642	642	638	644	298
165°	532	530	528	530	532	152
175°	369	367	366	367	367	38
180°	360	360	360	360	360	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10505.6	10505.6	10505.6	10505.6	10505.6
2.5°	10549.2	10549.2	10541.6	10547.3	10541.6
5°	10579.5	10592.7	10604.1	10598.4	10590.8
7.5°	10547.3	10560.5	10598.4	10588.9	10588.9
10°	10388.2	10412.8	10471.5	10454.5	10426.1
12.5°	10147.7	10189.3	10242.4	10210.2	10196.9
15°	9785.9	9799.2	9865.5	9840.8	9829.5
17.5°	9361.7	9361.7	9445.0	9441.2	9384.4
20°	8962.1	8990.5	9017.0	9043.5	8988.6
22.5°	8577.6	8676.1	8674.2	8723.4	8623.0
25°	8306.8	8431.8	8435.5	8486.7	8346.5
27.5°	8128.7	8268.9	8321.9	8318.1	8166.6
30°	8020.8	8102.2	8272.7	8168.5	8096.5
32.5°	7964.0	7967.7	8236.7	8032.1	8032.1
35°	7820.0	7848.4	8083.3	7910.9	7910.9
37.5°	7594.6	7704.5	7831.4	7763.2	7683.7
40°	7329.5	7511.3	7549.2	7537.8	7437.4
42.5°	7132.5	7234.8	7291.6	7278.4	7193.1
45°	6892.0	6907.1	6945.0	6960.2	6929.9
47.5°	6509.4	6503.7	6520.8	6530.3	6534.0
50°	6056.8	6013.2	6024.6	6022.7	6066.2
52.5°	5592.8	5537.8	5537.8	5528.4	5566.2
55°	5085.2	5083.3	5087.1	5060.6	5107.9
57.5°	4626.9	4642.0	4653.4	4621.2	4609.8
60°	4085.2	4136.3	4136.3	4123.1	4107.9
62.5°	3615.5	3653.4	3674.2	3643.9	3642.0
65°	3193.2	3212.1	3221.6	3214.0	3204.5
67.5°	2806.8	2829.5	2840.9	2823.8	2825.7
70°	2482.9	2490.5	2498.1	2515.1	2500.0
72.5°	2172.3	2178.0	2193.2	2189.4	2189.4
75°	1890.1	1911.0	1914.8	1914.8	1914.8
77.5°	1655.3	1666.7	1664.8	1661.0	1657.2
80°	1441.3	1452.6	1452.6	1452.6	1454.5
82.5°	1274.6	1272.7	1276.5	1280.3	1280.3
85°	1132.6	1130.7	1142.0	1132.6	1130.7
87.5°	1034.1	1039.8	1043.6	1041.7	1037.9
90°	975.4	977.3	981.1	979.2	975.4
92.5°	939.4	943.2	947.0	947.0	945.1
95°	924.2	926.1	929.9	929.9	928.0
97.5°	920.4	922.3	926.1	926.1	924.2
100°	922.3	924.2	926.1	926.1	928.0
102.5°	924.2	926.1	928.0	929.9	929.9
105°	933.7	933.7	935.6	937.5	939.4
107.5°	945.1	947.0	948.9	950.8	950.8
110°	958.3	960.2	960.2	964.0	964.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	967.8	969.7	969.7	973.5	975.4
115°	967.8	969.7	971.6	975.4	977.3
117.5°	960.2	960.2	962.1	965.9	969.7
120°	943.2	943.2	947.0	948.9	952.6
122.5°	922.3	924.2	928.0	929.9	931.8
125°	901.5	903.4	907.2	907.2	911.0
127.5°	873.1	878.8	882.6	882.6	884.5
130°	850.4	856.1	859.8	861.7	859.8
132.5°	844.7	850.4	856.1	852.3	848.5
135°	859.8	859.8	859.8	863.6	867.4
137.5°	875.0	871.2	857.9	873.1	878.8
140°	875.0	861.7	852.3	859.8	875.0
142.5°	831.4	827.6	808.7	823.9	829.5
145°	782.2	786.0	784.1	780.3	776.5
147.5°	740.5	748.1	753.8	738.6	738.6
150°	695.1	712.1	712.1	706.4	700.8
152.5°	670.4	674.2	674.2	670.4	672.3
155°	640.1	642.0	642.0	638.3	643.9
157.5°	609.8	613.6	613.6	613.6	611.7
160°	589.0	590.9	589.0	589.0	587.1
162.5°	562.5	560.6	560.6	560.6	562.5
165°	532.2	530.3	528.4	530.3	532.2
167.5°	496.2	496.2	494.3	494.3	494.3
170°	452.6	454.5	452.6	452.6	450.8
172.5°	395.8	393.9	395.8	395.8	397.7
175°	369.3	367.4	365.5	367.4	367.4
177.5°	359.8	361.7	361.7	359.8	358.0
180°	359.8	359.8	359.8	359.8	359.8

(END OF REPORT)