

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: P231464

Luminaire Tested: **SSLED-LD5-36-W-UNV-L835-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: P231464
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-L835-CD2-U-FRR22-FRCDL22
Description: STEELER WHITE 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: 31206.0 lumens
Efficiency: N/A
Efficacy: 93.5 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

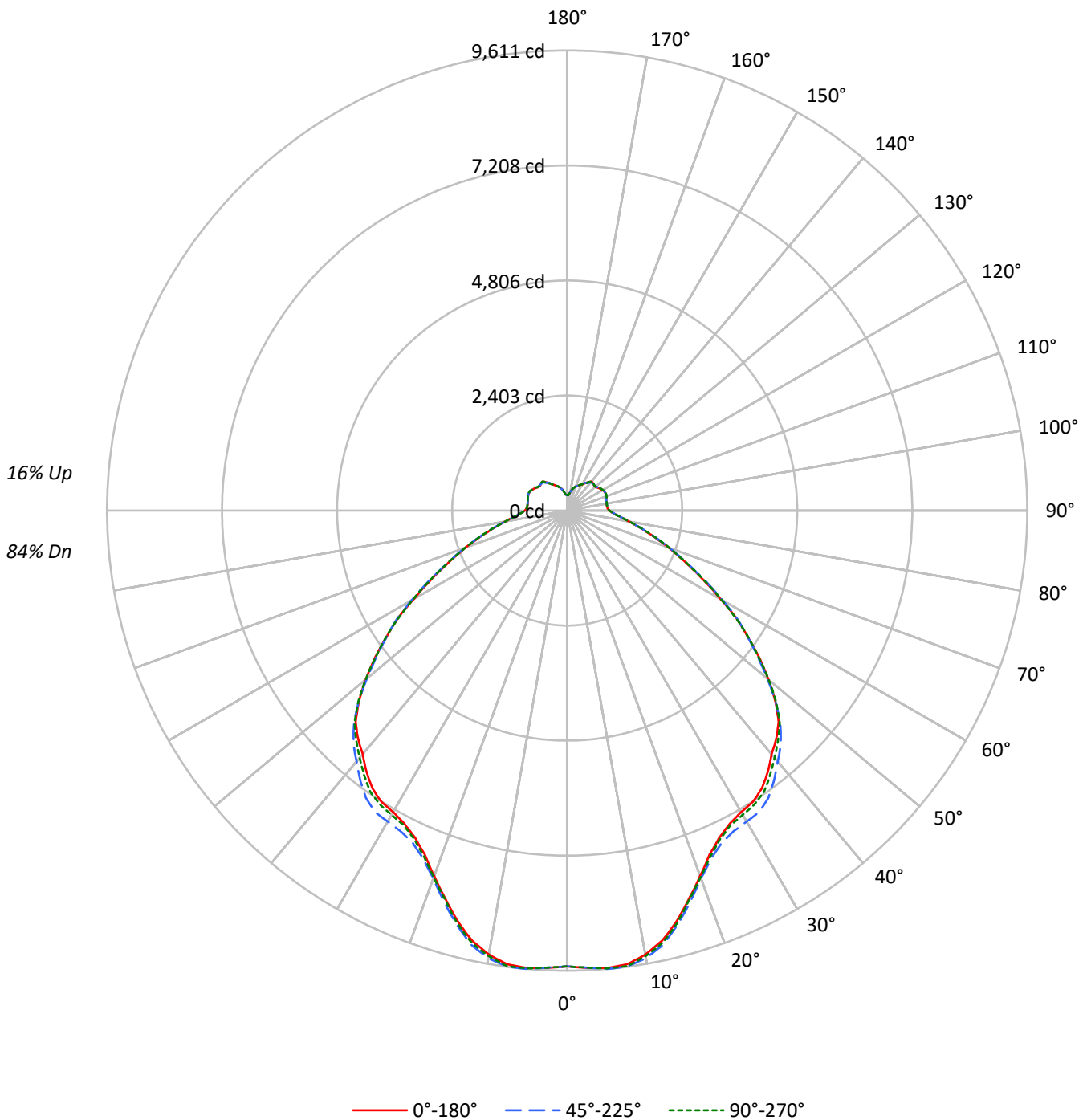
Input Watts (W): 333.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	38825	38825	38825
5°	36999	37085	37038
10°	34730	35009	34857
15°	31566	31823	31707
20°	28134	28307	28218
25°	25586	25983	25709
30°	24431	25198	24662
35°	23737	24536	24013
40°	22341	23010	22670
45°	21257	21421	21374
50°	19053	18952	19083
55°	16449	16455	16523
60°	13707	13878	13783
65°	11217	11317	11257
70°	9226	9282	9289
75°	7514	7612	7612
80°	6211	6260	6268
85°	5373	5418	5364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	912.3	2.9
10°-20°	2495.5	8.0
20°-30°	3548.3	11.4
30°-40°	4482.6	14.4
40°-50°	4803.8	15.4
50°-60°	4119.9	13.2
60°-70°	2914.5	9.3
70°-80°	1850.0	5.9
80°-90°	1153.0	3.7
90°-100°	926.9	3.0
100°-110°	900.1	2.9
110°-120°	868.4	2.8
120°-130°	735.9	2.4
130°-140°	604.0	1.9
140°-150°	447.9	1.4
150°-160°	271.5	0.9
160°-170°	137.1	0.4
170°-180°	34.2	0.1
0°-30°	6956.2	22.3
0°-40°	11438.9	36.7
0°-60°	20362.5	65.3
0°-90°	26280.0	84.2
90°-120°	2695.4	8.6
90°-150°	4483.2	14.4
90°-180°	4926.0	15.8
0°-180°	31206.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9522	9522	9522	9522	9522	
5°	9588	9601	9611	9606	9599	910
15°	8869	8881	8941	8919	8909	2484
25°	7529	7642	7645	7692	7565	3503
35°	7088	7113	7326	7170	7170	4412
45°	6246	6260	6294	6308	6281	4766
55°	4609	4607	4611	4587	4630	4127
65°	2894	2911	2920	2913	2904	2892
75°	1713	1732	1735	1735	1735	1837
85°	1026	1025	1035	1026	1025	899
90°	884	886	889	887	884	487
95°	838	839	843	843	841	685
105°	846	846	848	850	851	897
115°	877	879	881	884	886	865
125°	817	819	822	822	826	731
135°	779	779	779	783	786	604
145°	709	712	711	707	704	449
155°	580	582	582	578	584	270
165°	482	481	479	481	482	137
175°	335	333	331	333	333	34
180°	326	326	326	326	326	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9521.6	9521.6	9521.6	9521.6	9521.6
2.5°	9561.1	9561.1	9554.2	9559.4	9554.2
5°	9588.5	9600.6	9610.9	9605.7	9598.8
7.5°	9559.4	9571.4	9605.7	9597.1	9597.1
10°	9415.2	9437.5	9490.7	9475.2	9449.5
12.5°	9197.2	9234.9	9283.0	9253.8	9241.8
15°	8869.3	8881.3	8941.4	8919.1	8908.8
17.5°	8484.8	8484.8	8560.3	8556.9	8505.4
20°	8122.6	8148.4	8172.4	8196.4	8146.7
22.5°	7774.2	7863.4	7861.7	7906.3	7815.4
25°	7528.7	7642.0	7645.4	7691.8	7564.8
27.5°	7367.3	7494.4	7542.4	7539.0	7401.7
30°	7269.5	7343.3	7497.8	7403.4	7338.2
32.5°	7218.0	7221.4	7465.2	7279.8	7279.8
35°	7087.6	7113.3	7326.2	7169.9	7169.9
37.5°	6883.3	6982.8	7097.9	7036.1	6964.0
40°	6643.0	6807.8	6842.1	6831.8	6740.8
42.5°	6464.5	6557.1	6608.6	6596.6	6519.4
45°	6246.5	6260.2	6294.5	6308.3	6280.8
47.5°	5899.7	5894.6	5910.0	5918.6	5922.0
50°	5489.5	5450.0	5460.3	5458.6	5498.0
52.5°	5068.9	5019.1	5019.1	5010.6	5044.9
55°	4608.9	4607.2	4610.6	4586.6	4629.5
57.5°	4193.5	4207.2	4217.5	4188.3	4178.0
60°	3702.6	3748.9	3748.9	3736.9	3723.2
62.5°	3276.9	3311.2	3330.1	3302.6	3300.9
65°	2894.1	2911.2	2919.8	2913.0	2904.4
67.5°	2543.9	2564.5	2574.8	2559.3	2561.1
70°	2250.4	2257.2	2264.1	2279.6	2265.8
72.5°	1968.9	1974.0	1987.7	1984.3	1984.3
75°	1713.1	1732.0	1735.4	1735.4	1735.4
77.5°	1500.2	1510.5	1508.8	1505.4	1502.0
80°	1306.3	1316.6	1316.6	1316.6	1318.3
82.5°	1155.2	1153.5	1156.9	1160.4	1160.4
85°	1026.5	1024.8	1035.1	1026.5	1024.8
87.5°	937.2	942.4	945.8	944.1	940.7
90°	884.0	885.7	889.2	887.4	884.0
92.5°	851.4	854.8	858.3	858.3	856.5
95°	837.7	839.4	842.8	842.8	841.1
97.5°	834.2	836.0	839.4	839.4	837.7
100°	836.0	837.7	839.4	839.4	841.1
102.5°	837.7	839.4	841.1	842.8	842.8
105°	846.2	846.2	848.0	849.7	851.4
107.5°	856.5	858.3	860.0	861.7	861.7
110°	868.6	870.3	870.3	873.7	873.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	877.1	878.9	878.9	882.3	884.0
115°	877.1	878.9	880.6	884.0	885.7
117.5°	870.3	870.3	872.0	875.4	878.9
120°	854.8	854.8	858.3	860.0	863.4
122.5°	836.0	837.7	841.1	842.8	844.5
125°	817.1	818.8	822.2	822.2	825.7
127.5°	791.3	796.5	799.9	799.9	801.6
130°	770.7	775.9	779.3	781.0	779.3
132.5°	765.6	770.7	775.9	772.4	769.0
135°	779.3	779.3	779.3	782.7	786.2
137.5°	793.0	789.6	777.6	791.3	796.5
140°	793.0	781.0	772.4	779.3	793.0
142.5°	753.6	750.1	733.0	746.7	751.8
145°	708.9	712.4	710.6	707.2	703.8
147.5°	671.2	678.0	683.2	669.4	669.4
150°	630.0	645.4	645.4	640.3	635.1
152.5°	607.7	611.1	611.1	607.7	609.4
155°	580.2	581.9	581.9	578.5	583.6
157.5°	552.7	556.2	556.2	556.2	554.4
160°	533.8	535.6	533.8	533.8	532.1
162.5°	509.8	508.1	508.1	508.1	509.8
165°	482.3	480.6	478.9	480.6	482.3
167.5°	449.7	449.7	448.0	448.0	448.0
170°	410.3	412.0	410.3	410.3	408.5
172.5°	358.8	357.0	358.8	358.8	360.5
175°	334.7	333.0	331.3	333.0	333.0
177.5°	326.1	327.9	327.9	326.1	324.4
180°	326.1	326.1	326.1	326.1	326.1

(END OF REPORT)