

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: P231529

Luminaire Tested: **SSLED-LD5-36-W-UNV-L850-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: P231529
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-L850-CD2-U-CLR22-FRCDL22
Description: STEELER CLEAR 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: 33463.0 lumens
Efficiency: N/A
Efficacy: 100.2 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

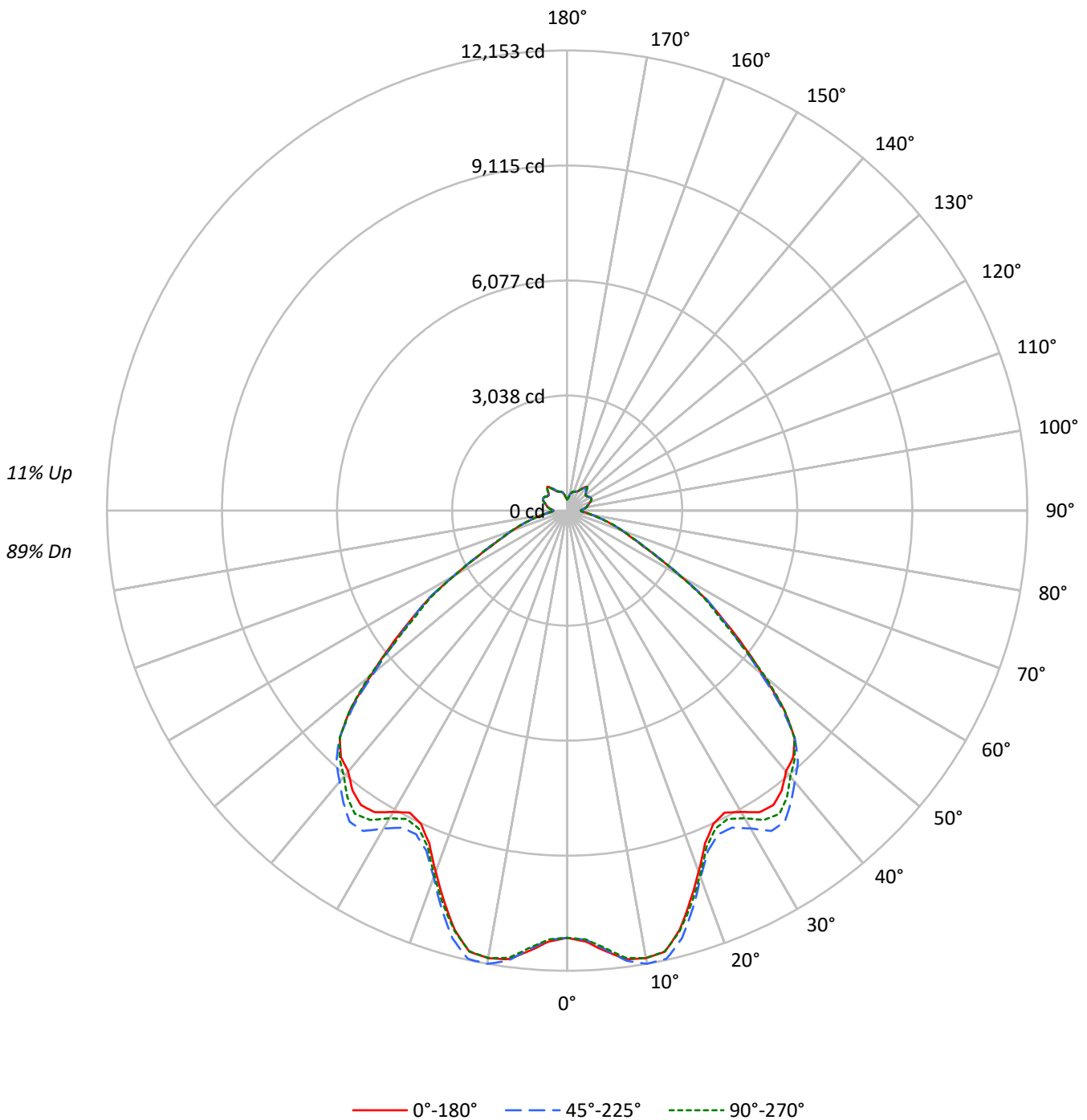
Input Watts (W): 333.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	46002	46002	46002
5°	45075	44892	44761
10°	44271	44829	44257
15°	40814	41629	40895
20°	35161	35673	35515
25°	31036	32059	31499
30°	30883	32576	31526
35°	31803	33579	32736
40°	30247	31445	30833
45°	28913	28964	28874
50°	23441	23112	23684
55°	18027	17825	17493
60°	12809	12894	12704
65°	8500	8735	8603
70°	6296	6367	6390
75°	4577	4585	4585
80°	3269	3224	3251
85°	2280	2290	2290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1126.9	3.4
10°-20°	3209.3	9.6
20°-30°	4422.5	13.2
30°-40°	6015.8	18.0
40°-50°	6412.6	19.2
50°-60°	4523.2	13.5
60°-70°	2308.8	6.9
70°-80°	1130.8	3.4
80°-90°	512.8	1.5
90°-100°	473.4	1.4
100°-110°	608.3	1.8
110°-120°	688.1	2.1
120°-130°	592.4	1.8
130°-140°	551.1	1.6
140°-150°	449.2	1.3
150°-160°	261.5	0.8
160°-170°	141.1	0.4
170°-180°	35.2	0.1
0°-30°	8758.7	26.2
0°-40°	14774.5	44.2
0°-60°	25710.3	76.8
0°-90°	29662.7	88.6
90°-120°	1769.8	5.3
90°-150°	3362.4	10.0
90°-180°	3800.0	11.4
0°-180°	33463.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11282	11282	11282	11282	11282	
5°	11682	11657	11634	11596	11600	###
15°	11468	11568	11697	11572	11490	3180
25°	9132	9450	9434	9547	9269	4304
35°	9496	9517	10026	9659	9774	5863
45°	8496	8464	8511	8543	8485	6360
55°	5051	5098	4994	5013	4901	4538
65°	2193	2218	2254	2231	2220	2277
75°	1044	1040	1045	1038	1045	1129
85°	436	438	438	436	438	412
90°	360	362	360	364	364	203
95°	430	428	426	432	434	369
105°	578	572	564	566	570	610
115°	706	704	703	704	712	688
125°	652	650	653	653	657	591
135°	710	708	710	722	724	553
145°	722	712	724	712	712	453
155°	551	553	559	553	557	258
165°	502	498	498	494	502	141
175°	341	339	335	339	339	35
180°	294	294	294	294	294	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11281.9	11281.9	11281.9	11281.9	11281.9
2.5°	11395.6	11376.6	11346.3	11338.8	11333.1
5°	11681.5	11656.9	11634.2	11596.3	11600.1
7.5°	11950.5	11965.6	11992.1	11946.7	11916.4
10°	12001.6	12058.4	12153.1	12075.5	11997.8
12.5°	11933.4	12024.3	12124.7	12011.1	11920.2
15°	11467.5	11567.9	11696.7	11571.7	11490.3
17.5°	10808.5	10893.7	11028.2	10888.0	10899.4
20°	10151.3	10244.1	10299.0	10329.3	10253.6
22.5°	9513.0	9757.4	9717.6	9835.0	9613.4
25°	9132.4	9450.5	9433.5	9547.1	9268.7
27.5°	8994.1	9365.3	9437.3	9443.0	9179.7
30°	9189.2	9336.9	9693.0	9443.0	9380.5
32.5°	9448.6	9395.6	10033.9	9549.0	9687.3
35°	9496.0	9516.8	10026.3	9658.9	9774.4
37.5°	9310.4	9541.4	9710.0	9689.2	9537.7
40°	8994.1	9365.3	9350.2	9458.1	9168.3
42.5°	8838.8	9020.6	9020.6	9098.3	8895.6
45°	8496.0	8463.8	8511.2	8543.4	8484.7
47.5°	7761.2	7700.6	7670.3	7782.0	7776.3
50°	6753.6	6713.9	6658.9	6791.5	6823.7
52.5°	5874.9	5791.5	5740.4	5778.3	5742.3
55°	5051.0	5098.4	4994.2	5013.1	4901.4
57.5°	4321.9	4427.9	4380.6	4365.4	4282.1
60°	3460.1	3534.0	3482.9	3505.6	3431.7
62.5°	2721.5	2772.7	2795.4	2785.9	2748.0
65°	2193.1	2217.8	2253.7	2231.0	2219.6
67.5°	1810.6	1833.3	1842.8	1837.1	1844.7
70°	1535.9	1541.6	1553.0	1535.9	1558.7
72.5°	1286.0	1297.3	1297.3	1299.2	1310.6
75°	1043.5	1039.7	1045.4	1037.9	1045.4
77.5°	839.0	839.0	835.2	831.4	842.8
80°	687.5	679.9	678.0	676.1	683.7
82.5°	547.3	549.2	549.2	547.3	545.4
85°	435.6	437.5	437.5	435.6	437.5
87.5°	375.0	375.0	376.9	376.9	375.0
90°	359.8	361.7	359.8	363.6	363.6
92.5°	384.5	384.5	386.4	390.1	388.2
95°	429.9	428.0	426.1	431.8	433.7
97.5°	473.5	471.6	475.4	479.2	482.9
100°	522.7	522.7	526.5	528.4	532.2
102.5°	543.5	543.5	541.7	547.3	551.1
105°	577.6	572.0	564.4	566.3	570.1
107.5°	604.2	602.3	600.4	604.2	606.0
110°	643.9	642.0	642.0	642.0	645.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	683.7	683.7	681.8	683.7	687.5
115°	706.4	704.5	702.6	704.5	712.1
117.5°	712.1	712.1	708.3	714.0	719.7
120°	702.6	700.7	700.7	704.5	710.2
122.5°	678.0	676.1	676.1	679.9	685.6
125°	651.5	649.6	653.4	653.4	657.2
127.5°	632.6	634.5	638.2	634.5	636.3
130°	636.3	638.2	645.8	640.1	640.1
132.5°	657.2	659.1	672.3	668.5	668.5
135°	710.2	708.3	710.2	721.6	723.5
137.5°	770.8	755.7	734.8	772.7	782.2
140°	822.0	780.3	772.7	789.8	818.2
142.5°	784.1	761.3	742.4	765.1	782.2
145°	721.6	712.1	723.5	712.1	712.1
147.5°	649.6	662.9	687.5	653.4	651.5
150°	594.7	621.2	630.7	611.7	598.5
152.5°	570.1	581.4	587.1	577.6	577.6
155°	551.1	553.0	558.7	553.0	556.8
157.5°	537.9	543.5	543.5	543.5	541.7
160°	526.5	534.1	532.2	532.2	528.4
162.5°	518.9	522.7	520.8	520.8	520.8
165°	501.9	498.1	498.1	494.3	501.9
167.5°	473.5	467.8	467.8	465.9	471.6
170°	437.5	437.5	435.6	435.6	431.8
172.5°	378.8	376.9	375.0	375.0	375.0
175°	340.9	339.0	335.2	339.0	339.0
177.5°	312.5	312.5	314.4	310.6	310.6
180°	293.6	293.6	293.6	293.6	293.6

(END OF REPORT)