

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: P231508

Luminaire Tested: **SSLED-LD5-36-W-UNV-L850-CD2-U-CLR22-CLCDL22**

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: P231508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-6)  
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-CLCDL22  
Description: STEELER CLEAR REFRACTOR LENS AND CONICAL 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: 34321.0 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Spacing Criteria (0/90/45): 1.63 / 1.67 / 1.65  
Luminous Opening: Vertical Cylinder (Dia: 1.67' x H: 1.17')  
CIE Type: Direct

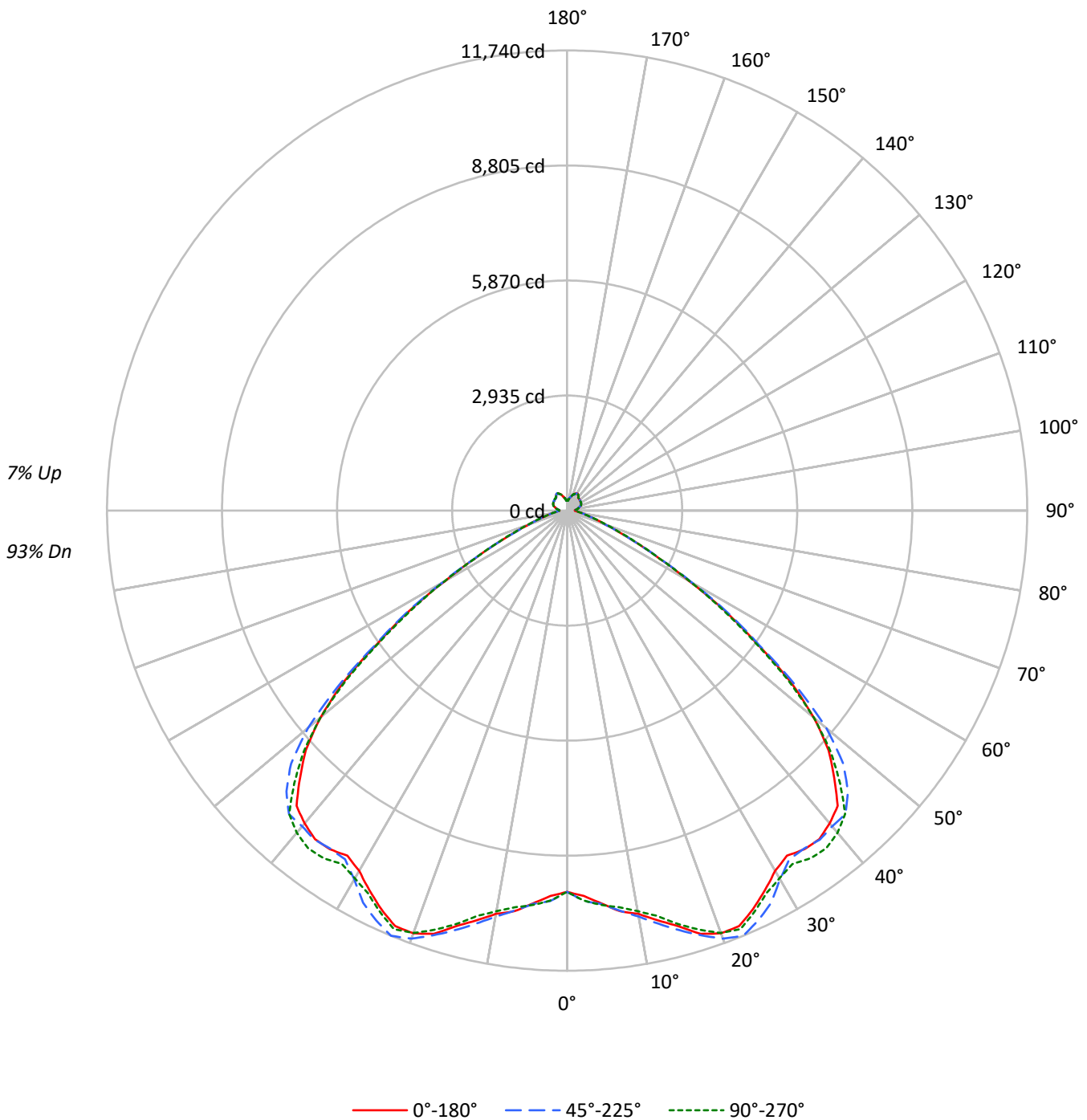
Input Watts (W): 333.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93								
1	109	105	101	98	105	102	98	95	96	94	91	91	89	87	87	85	84	81								
2	100	93	87	82	97	90	85	80	86	81	77	82	78	75	78	75	72	70								
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	69	65	62	60								
4	84	73	65	59	81	71	64	58	68	62	57	65	60	55	62	58	54	52								
5	78	66	57	51	75	64	56	50	61	54	49	59	53	48	56	51	47	45								
6	72	59	51	44	69	58	50	44	55	48	43	53	47	42	51	46	41	39								
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35								
8	62	49	40	35	60	48	40	34	46	39	34	44	38	33	42	37	33	31								
9	57	44	36	31	56	44	36	31	42	35	30	40	34	30	39	33	29	28								
10	54	41	33	28	52	40	33	28	39	32	27	37	31	27	36	30	27	25								

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

	0°	45°	90°
0°	47982	47982	47982
5°	46212	46291	46413
10°	45229	45533	44926
15°	45260	45705	45018
20°	45500	46070	45462
25°	43145	44369	43451
30°	39922	40848	40756
35°	39122	39052	40155
40°	38390	38746	39542
45°	35558	37367	36333
50°	30566	32123	30580
55°	22306	22621	22033
60°	13966	14319	14084
65°	7868	7860	8020
70°	4373	4294	4571
75°	2612	2637	2679
80°	1831	1813	1822
85°	1255	1265	1255



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	973.2	2.8
10°-20°	3127.7	9.1
20°-30°	5206.4	15.2
30°-40°	6697.3	19.5
40°-50°	7567.0	22.0
50°-60°	5374.0	15.7
60°-70°	2072.8	6.0
70°-80°	681.7	2.0
80°-90°	290.1	0.8
90°-100°	248.4	0.7
100°-110°	337.9	1.0
110°-120°	388.5	1.1
120°-130°	370.0	1.1
130°-140°	331.4	1.0
140°-150°	301.9	0.9
150°-160°	218.5	0.6
160°-170°	107.1	0.3
170°-180°	27.1	0.1
0°-30°	9307.3	27.1
0°-40°	16004.6	46.6
0°-60°	28945.6	84.3
0°-90°	31990.2	93.2
90°-120°	974.8	2.8
90°-150°	1978.2	5.8
90°-180°	2331.0	6.8
0°-180°	34321.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9725	9725	9725	9725	9725	
5°	10058	10053	10076	10030	10102	974
15°	10977	11026	11085	10992	10918	3132
25°	11219	11163	11538	11246	11299	5155
35°	10549	10555	10530	10731	10827	6607
45°	9638	9788	10128	9939	9848	7376
55°	5894	6043	5977	5968	5822	5301
65°	1962	1930	1960	1962	2000	2058
75°	593	606	598	602	608	681
85°	248	250	250	250	248	233
90°	195	197	197	199	197	109
95°	216	216	218	220	222	190
105°	324	320	311	316	314	339
115°	394	392	392	396	398	388
125°	411	411	415	413	415	368
135°	426	424	426	432	436	330
145°	489	489	489	492	494	301
155°	474	472	456	470	470	220
165°	360	367	366	364	356	106
175°	261	258	258	258	258	27
180°	282	282	282	282	282	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9725.1	9725.1	9725.1	9725.1	9725.1
2.5°	9842.5	9956.2	9971.3	9888.0	9961.8
5°	10058.4	10052.8	10075.5	10030.0	10102.0
7.5°	10310.3	10276.2	10293.3	10236.5	10206.2
10°	10446.7	10439.1	10516.8	10435.3	10376.6
12.5°	10708.0	10692.9	10798.9	10677.7	10590.6
15°	10977.0	11026.2	11084.9	10992.1	10918.3
17.5°	11323.6	11213.7	11359.5	11200.4	11209.9
20°	11477.0	11323.6	11620.9	11346.3	11467.5
22.5°	11475.1	11387.9	11740.2	11317.9	11556.5
25°	11219.4	11162.6	11537.6	11245.9	11298.9
27.5°	10922.0	11030.0	11274.3	11128.5	11007.3
30°	10613.3	10950.5	10859.5	11105.8	10834.9
32.5°	10439.1	10763.0	10550.8	10942.9	10691.0
35°	10549.0	10554.6	10530.0	10730.8	10827.4
37.5°	10567.9	10492.1	10586.8	10638.0	10859.5
40°	10418.3	10459.9	10514.9	10639.9	10730.8
42.5°	10217.5	10264.9	10507.3	10418.3	10497.8
45°	9638.0	9787.6	10128.5	9939.1	9848.2
47.5°	9049.0	9403.1	9556.6	9509.2	9126.6
50°	8211.9	8507.3	8630.4	8603.9	8215.7
52.5°	7204.3	7251.7	7371.0	7274.4	7100.2
55°	5893.8	6043.4	5977.1	5967.6	5821.8
57.5°	4808.6	4895.7	4878.7	4854.0	4687.4
60°	3600.3	3668.5	3691.2	3683.6	3630.6
62.5°	2666.6	2679.9	2689.3	2729.1	2657.1
65°	1962.1	1929.9	1960.2	1962.1	1999.9
67.5°	1405.3	1393.9	1410.9	1420.4	1467.8
70°	1045.4	1032.2	1026.5	1056.8	1092.8
72.5°	801.1	789.8	795.4	808.7	814.4
75°	592.8	606.0	598.5	602.3	607.9
77.5°	471.6	469.7	465.9	467.8	473.5
80°	390.1	386.4	386.4	382.6	388.2
82.5°	310.6	314.4	312.5	314.4	314.4
85°	248.1	250.0	250.0	250.0	248.1
87.5°	208.3	210.2	208.3	212.1	210.2
90°	195.1	197.0	197.0	198.9	197.0
92.5°	198.9	202.6	202.6	206.4	204.5
95°	215.9	215.9	217.8	219.7	221.6
97.5°	246.2	248.1	251.9	253.8	253.8
100°	274.6	278.4	280.3	282.2	286.0
102.5°	291.7	291.7	291.7	295.4	295.4
105°	323.9	320.1	310.6	316.3	314.4
107.5°	346.6	342.8	340.9	346.6	350.4
110°	371.2	367.4	365.5	371.2	375.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	382.6	380.7	380.7	384.5	388.2
115°	393.9	392.0	392.0	395.8	397.7
117.5°	399.6	399.6	403.4	403.4	405.3
120°	401.5	403.4	407.2	407.2	407.2
122.5°	407.2	405.3	411.0	409.1	411.0
125°	411.0	411.0	414.8	412.9	414.8
127.5°	414.8	412.9	416.7	416.7	416.7
130°	418.5	418.5	422.3	422.3	422.3
132.5°	422.3	420.4	424.2	426.1	429.9
135°	426.1	424.2	426.1	431.8	435.6
137.5°	429.9	428.0	428.0	433.7	439.4
140°	435.6	437.5	433.7	439.4	441.3
142.5°	462.1	462.1	456.4	462.1	469.7
145°	488.6	488.6	488.6	492.4	494.3
147.5°	501.9	503.8	505.7	505.7	507.6
150°	505.7	505.7	505.7	505.7	507.6
152.5°	500.0	498.1	486.7	496.2	498.1
155°	473.5	471.6	456.4	469.7	469.7
157.5°	450.7	448.9	433.7	447.0	448.9
160°	433.7	443.2	428.0	441.3	431.8
162.5°	392.0	411.0	401.5	405.3	390.1
165°	359.8	367.4	365.5	363.6	356.1
167.5°	339.0	346.6	342.8	344.7	333.3
170°	318.2	323.9	325.7	320.1	312.5
172.5°	282.2	286.0	291.7	282.2	282.2
175°	261.4	257.6	257.6	257.6	257.6
177.5°	270.8	270.8	272.7	267.0	267.0
180°	282.2	282.2	282.2	282.2	282.2

(END OF REPORT)