

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: P231514

Luminaire Tested: **SSLED-LD5-12-W-UNV-L850-CD1-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: P231514
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-LD5-12-W-UNV-L850-CD1-U-CLR22-FRCDL22
Description: STEELER CLEAR REFRACTOR LENS AND CIRCULAR DROP
Light Source: (240) 5000 CCT, 80 CRI LEDS
Ballast/Driver: (1) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11615.0 lumens
Efficiency: N/A
Efficacy: 136.2 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

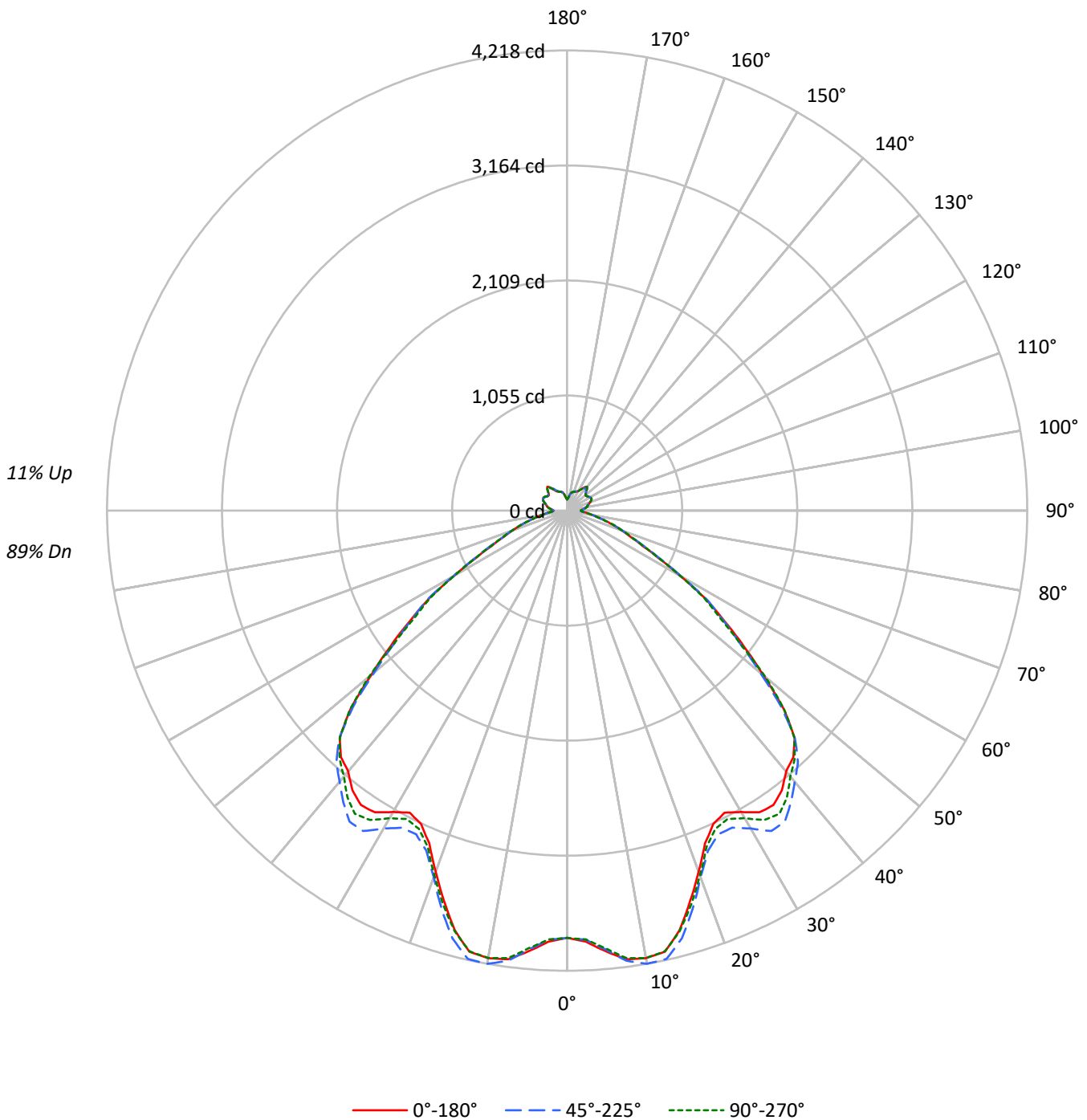
Input Watts (W): 85.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15968	15968	15968
5°	15646	15582	15536
10°	15366	15560	15361
15°	14167	14449	14195
20°	12204	12382	12327
25°	10772	11128	10934
30°	10720	11307	10943
35°	11039	11655	11363
40°	10499	10914	10702
45°	10036	10053	10022
50°	8136	8022	8221
55°	6257	6187	6072
60°	4446	4475	4410
65°	2950	3032	2986
70°	2185	2210	2218
75°	1589	1592	1592
80°	1134	1119	1128
85°	791	795	795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.1	3.4
10°-20°	1113.9	9.6
20°-30°	1535.1	13.2
30°-40°	2088.1	18.0
40°-50°	2225.8	19.2
50°-60°	1570.0	13.5
60°-70°	801.4	6.9
70°-80°	392.5	3.4
80°-90°	178.0	1.5
90°-100°	164.3	1.4
100°-110°	211.1	1.8
110°-120°	238.8	2.1
120°-130°	205.6	1.8
130°-140°	191.3	1.6
140°-150°	155.9	1.3
150°-160°	90.8	0.8
160°-170°	49.0	0.4
170°-180°	12.2	0.1
0°-30°	3040.2	26.2
0°-40°	5128.2	44.2
0°-60°	8924.0	76.8
0°-90°	10295.9	88.6
90°-120°	614.3	5.3
90°-150°	1167.1	10.0
90°-180°	1319.0	11.4
0°-180°	11615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3916	3916	3916	3916	3916	
5°	4055	4046	4038	4025	4026	391
15°	3980	4015	4060	4016	3988	1104
25°	3170	3280	3274	3314	3217	1494
35°	3296	3303	3480	3353	3393	2035
45°	2949	2938	2954	2965	2945	2208
55°	1753	1770	1734	1740	1701	1575
65°	761	770	782	774	770	790
75°	362	361	363	360	363	392
85°	151	152	152	151	152	143
90°	125	126	125	126	126	70
95°	149	149	148	150	150	128
105°	200	198	196	197	198	212
115°	245	244	244	244	247	239
125°	226	226	227	227	228	205
135°	246	246	246	250	251	192
145°	250	247	251	247	247	157
155°	191	192	194	192	193	89
165°	174	173	173	172	174	49
175°	118	118	116	118	118	12
180°	102	102	102	102	102	



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CATALOG NUMBER: SSLED-LD5-12-W-UNV-L850-CD1-U-CLR22-FRCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3916.0	3916.0	3916.0	3916.0	3916.0
2.5°	3955.4	3948.8	3938.3	3935.7	3933.7
5°	4054.7	4046.1	4038.2	4025.1	4026.4
7.5°	4148.0	4153.3	4162.5	4146.7	4136.2
10°	4165.8	4185.5	4218.3	4191.4	4164.4
12.5°	4142.1	4173.6	4208.5	4169.0	4137.5
15°	3980.4	4015.2	4059.9	4016.5	3988.3
17.5°	3751.6	3781.2	3827.9	3779.2	3783.2
20°	3523.5	3555.7	3574.8	3585.3	3559.0
22.5°	3302.0	3386.8	3373.0	3413.7	3336.8
25°	3169.8	3280.3	3274.4	3313.8	3217.2
27.5°	3121.9	3250.7	3275.7	3277.7	3186.3
30°	3189.6	3240.8	3364.4	3277.7	3256.0
32.5°	3279.6	3261.2	3482.8	3314.5	3362.5
35°	3296.1	3303.3	3480.1	3352.6	3392.7
37.5°	3231.6	3311.8	3370.3	3363.1	3310.5
40°	3121.9	3250.7	3245.4	3282.9	3182.3
42.5°	3067.9	3131.1	3131.1	3158.0	3087.7
45°	2949.0	2937.8	2954.2	2965.4	2945.0
47.5°	2693.9	2672.9	2662.4	2701.1	2699.2
50°	2344.2	2330.4	2311.3	2357.3	2368.5
52.5°	2039.2	2010.2	1992.5	2005.6	1993.1
55°	1753.2	1769.6	1733.5	1740.1	1701.3
57.5°	1500.1	1536.9	1520.5	1515.2	1486.3
60°	1201.0	1226.7	1208.9	1216.8	1191.2
62.5°	944.6	962.4	970.3	967.0	953.8
65°	761.2	769.8	782.3	774.4	770.4
67.5°	628.4	636.3	639.6	637.6	640.3
70°	533.1	535.1	539.0	533.1	541.0
72.5°	446.4	450.3	450.3	451.0	454.9
75°	362.2	360.9	362.9	360.2	362.9
77.5°	291.2	291.2	289.9	288.6	292.5
80°	238.6	236.0	235.3	234.7	237.3
82.5°	190.0	190.6	190.6	190.0	189.3
85°	151.2	151.9	151.9	151.2	151.9
87.5°	130.2	130.2	130.8	130.8	130.2
90°	124.9	125.6	124.9	126.2	126.2
92.5°	133.4	133.4	134.1	135.4	134.8
95°	149.2	148.6	147.9	149.9	150.5
97.5°	164.3	163.7	165.0	166.3	167.6
100°	181.4	181.4	182.7	183.4	184.7
102.5°	188.7	188.7	188.0	190.0	191.3
105°	200.5	198.5	195.9	196.6	197.9
107.5°	209.7	209.0	208.4	209.7	210.4
110°	223.5	222.8	222.8	222.8	224.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	237.3	237.3	236.7	237.3	238.6
115°	245.2	244.5	243.9	244.5	247.2
117.5°	247.2	247.2	245.9	247.8	249.8
120°	243.9	243.2	243.2	244.5	246.5
122.5°	235.3	234.7	234.7	236.0	238.0
125°	226.1	225.5	226.8	226.8	228.1
127.5°	219.6	220.2	221.5	220.2	220.9
130°	220.9	221.5	224.2	222.2	222.2
132.5°	228.1	228.8	233.4	232.1	232.1
135°	246.5	245.9	246.5	250.5	251.1
137.5°	267.5	262.3	255.1	268.2	271.5
140°	285.3	270.8	268.2	274.1	284.0
142.5°	272.2	264.3	257.7	265.6	271.5
145°	250.5	247.2	251.1	247.2	247.2
147.5°	225.5	230.1	238.6	226.8	226.1
150°	206.4	215.6	218.9	212.3	207.7
152.5°	197.9	201.8	203.8	200.5	200.5
155°	191.3	192.0	193.9	192.0	193.3
157.5°	186.7	188.7	188.7	188.7	188.0
160°	182.7	185.4	184.7	184.7	183.4
162.5°	180.1	181.4	180.8	180.8	180.8
165°	174.2	172.9	172.9	171.6	174.2
167.5°	164.3	162.4	162.4	161.7	163.7
170°	151.9	151.9	151.2	151.2	149.9
172.5°	131.5	130.8	130.2	130.2	130.2
175°	118.3	117.7	116.4	117.7	117.7
177.5°	108.5	108.5	109.1	107.8	107.8
180°	101.9	101.9	101.9	101.9	101.9

(END OF REPORT)