

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: P231496

Luminaire Tested: **SSLED-LD5-15-W-UNV-L850-CD1-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: P231496
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-LD5-15-W-UNV-L850-CD1-U-CLR22-CLCDL22
Description: STEELER CLEAR REFRACTOR LENS AND CONICAL 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: 14767.0 lumens
Efficiency: N/A
Efficacy: 133.3 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

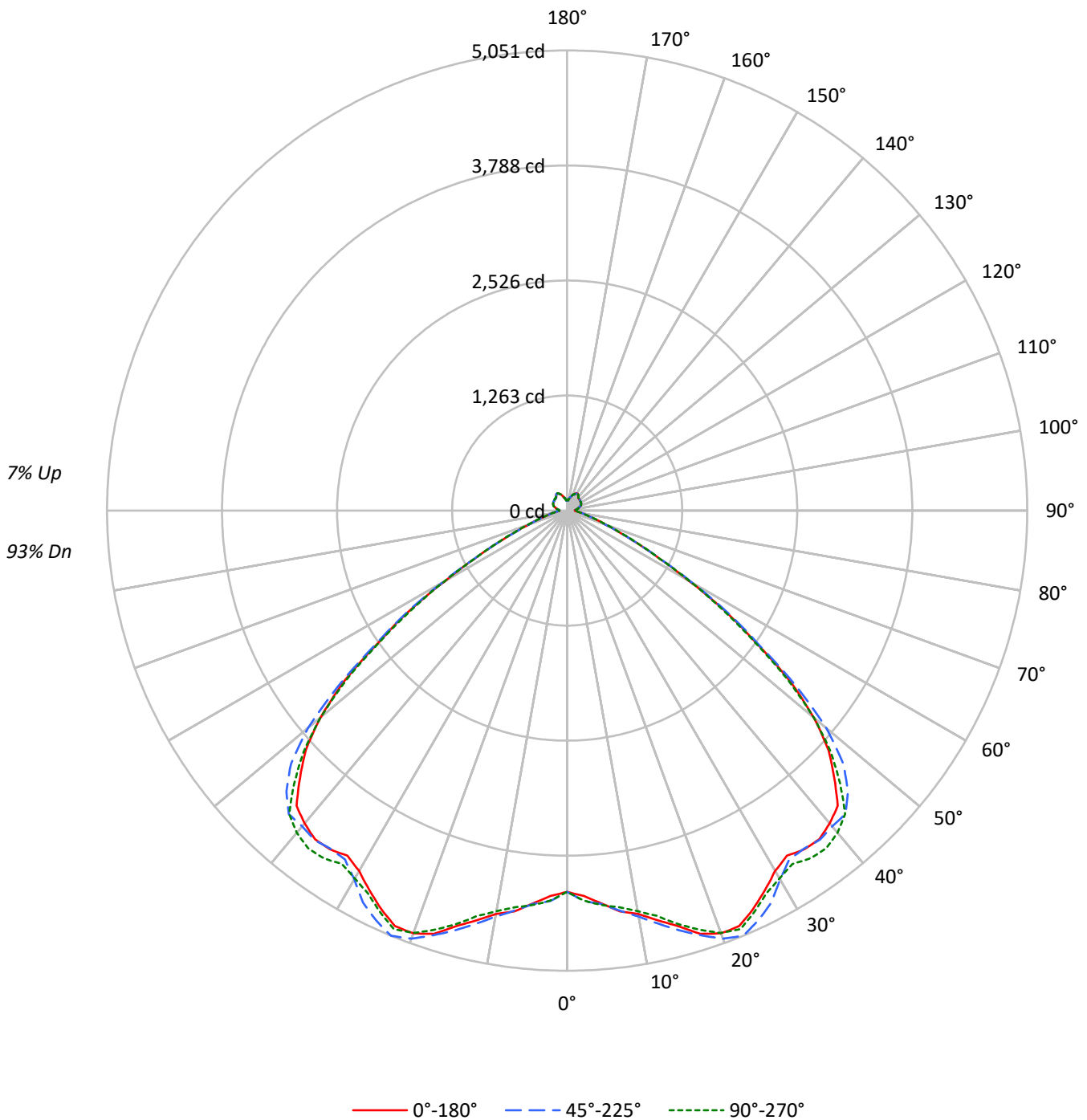
Input Watts (W): 110.74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20645	20645	20645
5°	19884	19917	19970
10°	19460	19591	19330
15°	19474	19665	19369
20°	19577	19822	19560
25°	18564	19090	18695
30°	17177	17575	17536
35°	16833	16803	17277
40°	16518	16671	17013
45°	15299	16078	15633
50°	13151	13821	13157
55°	9597	9733	9480
60°	6009	6161	6060
65°	3385	3382	3451
70°	1881	1848	1967
75°	1124	1135	1153
80°	788	780	784
85°	540	544	540



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CATALOG NUMBER: SSLED-LD5-15-W-UNV-L850-CD1-U-CLR22-CLCDL22

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.7	2.8
10°-20°	1345.7	9.1
20°-30°	2240.1	15.2
30°-40°	2881.6	19.5
40°-50°	3255.8	22.0
50°-60°	2312.2	15.7
60°-70°	891.8	6.0
70°-80°	293.3	2.0
80°-90°	124.8	0.8
90°-100°	106.9	0.7
100°-110°	145.4	1.0
110°-120°	167.1	1.1
120°-130°	159.2	1.1
130°-140°	142.6	1.0
140°-150°	129.9	0.9
150°-160°	94.0	0.6
160°-170°	46.1	0.3
170°-180°	11.7	0.1
0°-30°	4004.6	27.1
0°-40°	6886.2	46.6
0°-60°	12454.2	84.3
0°-90°	13764.1	93.2
90°-120°	419.4	2.8
90°-150°	851.1	5.8
90°-180°	1003.0	6.8
0°-180°	14767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4184	4184	4184	4184	4184	
5°	4328	4325	4335	4316	4346	419
15°	4723	4744	4769	4730	4698	1348
25°	4827	4803	4964	4839	4862	2218
35°	4539	4541	4531	4617	4659	2843
45°	4147	4211	4358	4276	4237	3174
55°	2536	2600	2572	2568	2505	2281
65°	844	830	843	844	860	885
75°	255	261	258	259	262	293
85°	107	108	108	108	107	100
90°	84	85	85	86	85	47
95°	93	93	94	94	95	82
105°	139	138	134	136	135	146
115°	170	169	169	170	171	167
125°	177	177	178	178	178	159
135°	183	182	183	186	187	142
145°	210	210	210	212	213	130
155°	204	203	196	202	202	95
165°	155	158	157	156	153	45
175°	112	111	111	111	111	12
180°	121	121	121	121	121	



TEST NUMBER: P231496

CATALOG NUMBER: SSLED-LD5-15-W-UNV-L850-CD1-U-CLR22-CLCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4184.3	4184.3	4184.3	4184.3	4184.3
2.5°	4234.9	4283.8	4290.3	4254.4	4286.2
5°	4327.8	4325.3	4335.1	4315.5	4346.5
7.5°	4436.1	4421.5	4428.8	4404.4	4391.3
10°	4494.8	4491.5	4525.0	4489.9	4464.7
12.5°	4607.3	4600.7	4646.4	4594.2	4556.7
15°	4723.0	4744.2	4769.4	4729.5	4697.7
17.5°	4872.1	4824.8	4887.6	4819.1	4823.2
20°	4938.1	4872.1	5000.0	4881.9	4934.0
22.5°	4937.3	4899.8	5051.4	4869.6	4972.3
25°	4827.3	4802.8	4964.2	4838.7	4861.5
27.5°	4699.3	4745.8	4850.9	4788.2	4736.0
30°	4566.5	4711.6	4672.4	4778.4	4661.9
32.5°	4491.5	4630.9	4539.6	4708.3	4599.9
35°	4538.8	4541.3	4530.7	4617.0	4658.6
37.5°	4547.0	4514.4	4555.1	4577.1	4672.4
40°	4482.6	4500.5	4524.1	4577.9	4617.0
42.5°	4396.2	4416.6	4520.9	4482.6	4516.8
45°	4146.9	4211.2	4357.9	4276.4	4237.3
47.5°	3893.4	4045.8	4111.8	4091.4	3926.8
50°	3533.3	3660.4	3713.3	3701.9	3534.9
52.5°	3099.8	3120.1	3171.5	3129.9	3054.9
55°	2535.9	2600.2	2571.7	2567.6	2504.9
57.5°	2068.9	2106.4	2099.1	2088.5	2016.8
60°	1549.1	1578.4	1588.2	1584.9	1562.1
62.5°	1147.3	1153.0	1157.1	1174.2	1143.3
65°	844.2	830.3	843.4	844.2	860.5
67.5°	604.6	599.7	607.1	611.1	631.5
70°	449.8	444.1	441.7	454.7	470.2
72.5°	344.7	339.8	342.2	347.9	350.4
75°	255.1	260.8	257.5	259.1	261.6
77.5°	202.9	202.1	200.5	201.3	203.7
80°	167.9	166.2	166.2	164.6	167.0
82.5°	133.6	135.3	134.5	135.3	135.3
85°	106.7	107.6	107.6	107.6	106.7
87.5°	89.6	90.5	89.6	91.3	90.5
90°	83.9	84.7	84.7	85.6	84.7
92.5°	85.6	87.2	87.2	88.8	88.0
95°	92.9	92.9	93.7	94.5	95.3
97.5°	105.9	106.7	108.4	109.2	109.2
100°	118.2	119.8	120.6	121.4	123.0
102.5°	125.5	125.5	125.5	127.1	127.1
105°	139.3	137.7	133.6	136.1	135.3
107.5°	149.1	147.5	146.7	149.1	150.8
110°	159.7	158.1	157.3	159.7	161.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.6	163.8	163.8	165.4	167.0
115°	169.5	168.7	168.7	170.3	171.1
117.5°	171.9	171.9	173.6	173.6	174.4
120°	172.8	173.6	175.2	175.2	175.2
122.5°	175.2	174.4	176.8	176.0	176.8
125°	176.8	176.8	178.5	177.6	178.5
127.5°	178.5	177.6	179.3	179.3	179.3
130°	180.1	180.1	181.7	181.7	181.7
132.5°	181.7	180.9	182.5	183.3	185.0
135°	183.3	182.5	183.3	185.8	187.4
137.5°	185.0	184.2	184.2	186.6	189.0
140°	187.4	188.2	186.6	189.0	189.9
142.5°	198.8	198.8	196.4	198.8	202.1
145°	210.2	210.2	210.2	211.9	212.7
147.5°	215.9	216.8	217.6	217.6	218.4
150°	217.6	217.6	217.6	217.6	218.4
152.5°	215.1	214.3	209.4	213.5	214.3
155°	203.7	202.9	196.4	202.1	202.1
157.5°	193.9	193.1	186.6	192.3	193.1
160°	186.6	190.7	184.2	189.9	185.8
162.5°	168.7	176.8	172.8	174.4	167.9
165°	154.8	158.1	157.3	156.5	153.2
167.5°	145.9	149.1	147.5	148.3	143.4
170°	136.9	139.3	140.2	137.7	134.5
172.5°	121.4	123.0	125.5	121.4	121.4
175°	112.5	110.8	110.8	110.8	110.8
177.5°	116.5	116.5	117.3	114.9	114.9
180°	121.4	121.4	121.4	121.4	121.4

(END OF REPORT)