

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: P231454

Luminaire Tested: **SSLED-LD5-15-W-UNV-L850-CD1-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: P231454
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-LD5-15-W-UNV-L850-CD1-U-FRR22-FRCDL22
Description: STEELER WHITE 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: 14815.0 lumens
Efficiency: N/A
Efficacy: 133.8 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

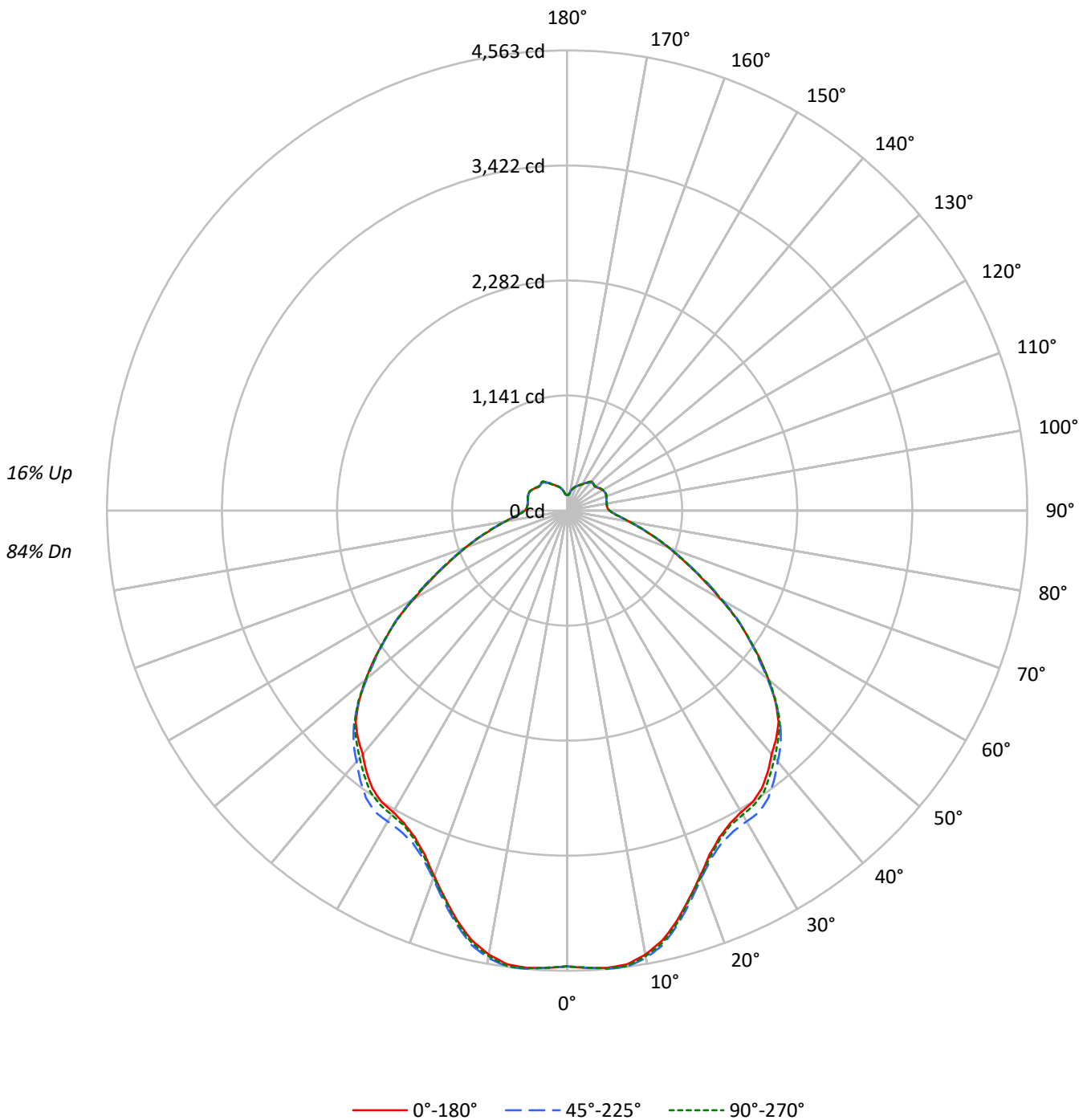
Input Watts (W): 110.74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	18432	18432	18432
5°	17565	17606	17584
10°	16488	16620	16548
15°	14986	15108	15053
20°	13357	13438	13396
25°	12147	12335	12205
30°	11599	11963	11708
35°	11269	11649	11400
40°	10606	10924	10762
45°	10092	10169	10147
50°	9045	8997	9060
55°	7809	7812	7844
60°	6507	6589	6544
65°	5325	5373	5344
70°	4380	4407	4410
75°	3567	3614	3614
80°	2949	2972	2976
85°	2551	2572	2546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.1	2.9
10°-20°	1184.8	8.0
20°-30°	1684.6	11.4
30°-40°	2128.1	14.4
40°-50°	2280.6	15.4
50°-60°	1955.9	13.2
60°-70°	1383.7	9.3
70°-80°	878.3	5.9
80°-90°	547.4	3.7
90°-100°	440.0	3.0
100°-110°	427.3	2.9
110°-120°	412.3	2.8
120°-130°	349.3	2.4
130°-140°	286.8	1.9
140°-150°	212.7	1.4
150°-160°	128.9	0.9
160°-170°	65.1	0.4
170°-180°	16.2	0.1
0°-30°	3302.5	22.3
0°-40°	5430.6	36.7
0°-60°	9667.0	65.3
0°-90°	12476.4	84.2
90°-120°	1279.6	8.6
90°-150°	2128.4	14.4
90°-180°	2339.0	15.8
0°-180°	14815.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4520	4520	4520	4520	4520	
5°	4552	4558	4563	4560	4557	432
15°	4211	4216	4245	4234	4229	1179
25°	3574	3628	3630	3652	3591	1663
35°	3365	3377	3478	3404	3404	2095
45°	2966	2972	2988	2995	2982	2262
55°	2188	2187	2189	2178	2198	1959
65°	1374	1382	1386	1383	1379	1373
75°	813	822	824	824	824	872
85°	487	486	491	487	486	427
90°	420	420	422	421	420	231
95°	398	398	400	400	399	325
105°	402	402	403	403	404	426
115°	416	417	418	420	420	411
125°	388	389	390	390	392	347
135°	370	370	370	372	373	287
145°	337	338	337	336	334	213
155°	275	276	276	275	277	128
165°	229	228	227	228	229	65
175°	159	158	157	158	158	16
180°	155	155	155	155	155	



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CATALOG NUMBER: SSLED-LD5-15-W-UNV-L850-CD1-U-FRR22-FRCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4520.4	4520.4	4520.4	4520.4	4520.4
2.5°	4539.1	4539.1	4535.8	4538.3	4535.8
5°	4552.1	4557.8	4562.7	4560.3	4557.0
7.5°	4538.3	4544.0	4560.3	4556.2	4556.2
10°	4469.8	4480.4	4505.7	4498.4	4486.1
12.5°	4366.3	4384.3	4407.1	4393.2	4387.5
15°	4210.7	4216.4	4244.9	4234.3	4229.4
17.5°	4028.2	4028.2	4064.0	4062.4	4037.9
20°	3856.2	3868.4	3879.8	3891.2	3867.6
22.5°	3690.8	3733.1	3732.3	3753.5	3710.3
25°	3574.2	3628.0	3629.7	3651.7	3591.4
27.5°	3497.6	3557.9	3580.8	3579.1	3513.9
30°	3451.2	3486.2	3559.6	3514.8	3483.8
32.5°	3426.7	3428.4	3544.1	3456.1	3456.1
35°	3364.8	3377.0	3478.1	3403.9	3403.9
37.5°	3267.8	3315.1	3369.7	3340.4	3306.1
40°	3153.7	3232.0	3248.3	3243.4	3200.2
42.5°	3069.0	3113.0	3137.4	3131.7	3095.1
45°	2965.5	2972.0	2988.3	2994.8	2981.8
47.5°	2800.9	2798.4	2805.8	2809.8	2811.5
50°	2606.1	2587.4	2592.3	2591.4	2610.2
52.5°	2406.5	2382.8	2382.8	2378.8	2395.1
55°	2188.1	2187.2	2188.9	2177.5	2197.8
57.5°	1990.9	1997.4	2002.3	1988.4	1983.5
60°	1757.8	1779.8	1779.8	1774.1	1767.6
62.5°	1555.7	1572.0	1580.9	1567.9	1567.1
65°	1374.0	1382.1	1386.2	1382.9	1378.8
67.5°	1207.7	1217.5	1222.4	1215.0	1215.9
70°	1068.4	1071.6	1074.9	1082.2	1075.7
72.5°	934.7	937.2	943.7	942.0	942.0
75°	813.3	822.3	823.9	823.9	823.9
77.5°	712.2	717.1	716.3	714.7	713.1
80°	620.2	625.0	625.0	625.0	625.9
82.5°	548.4	547.6	549.3	550.9	550.9
85°	487.3	486.5	491.4	487.3	486.5
87.5°	444.9	447.4	449.0	448.2	446.6
90°	419.7	420.5	422.1	421.3	419.7
92.5°	404.2	405.8	407.5	407.5	406.6
95°	397.7	398.5	400.1	400.1	399.3
97.5°	396.1	396.9	398.5	398.5	397.7
100°	396.9	397.7	398.5	398.5	399.3
102.5°	397.7	398.5	399.3	400.1	400.1
105°	401.8	401.8	402.6	403.4	404.2
107.5°	406.6	407.5	408.3	409.1	409.1
110°	412.3	413.2	413.2	414.8	414.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	416.4	417.2	417.2	418.9	419.7
115°	416.4	417.2	418.1	419.7	420.5
117.5°	413.2	413.2	414.0	415.6	417.2
120°	405.8	405.8	407.5	408.3	409.9
122.5°	396.9	397.7	399.3	400.1	400.9
125°	387.9	388.7	390.3	390.3	392.0
127.5°	375.7	378.1	379.8	379.8	380.6
130°	365.9	368.3	370.0	370.8	370.0
132.5°	363.5	365.9	368.3	366.7	365.1
135°	370.0	370.0	370.0	371.6	373.2
137.5°	376.5	374.9	369.2	375.7	378.1
140°	376.5	370.8	366.7	370.0	376.5
142.5°	357.8	356.1	348.0	354.5	356.9
145°	336.6	338.2	337.4	335.7	334.1
147.5°	318.6	321.9	324.3	317.8	317.8
150°	299.1	306.4	306.4	304.0	301.5
152.5°	288.5	290.1	290.1	288.5	289.3
155°	275.4	276.3	276.3	274.6	277.1
157.5°	262.4	264.0	264.0	264.0	263.2
160°	253.4	254.3	253.4	253.4	252.6
162.5°	242.0	241.2	241.2	241.2	242.0
165°	229.0	228.2	227.4	228.2	229.0
167.5°	213.5	213.5	212.7	212.7	212.7
170°	194.8	195.6	194.8	194.8	194.0
172.5°	170.3	169.5	170.3	170.3	171.1
175°	158.9	158.1	157.3	158.1	158.1
177.5°	154.8	155.6	155.6	154.8	154.0
180°	154.8	154.8	154.8	154.8	154.8

(END OF REPORT)