

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: P231452

Luminaire Tested: **SSLED-LD5-15-W-UNV-L835-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: P231452
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-L835-CD1-U-FRR22-FRCDL22
Description: STEELER WHITE REFRACTOR LENS AND CIRCULAR DROP
Light Source: (240) 3500 CCT, 80 CRI LEDS
Ballast/Driver: (1) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13427.0 lumens
Efficiency: N/A
Efficacy: 121.2 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

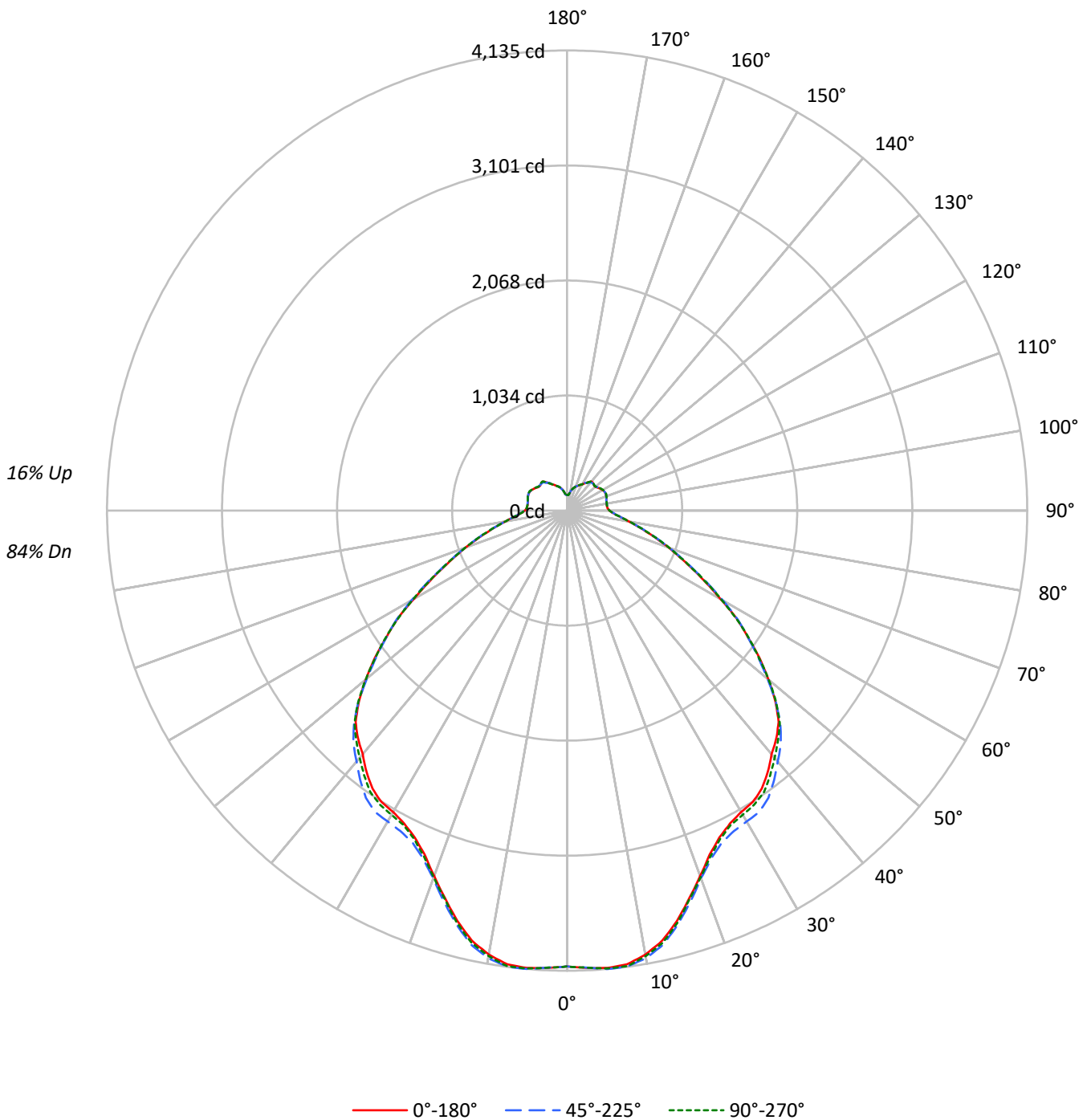
Input Watts (W): 110.74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16705	16705	16705
5°	15920	15957	15937
10°	14943	15063	14998
15°	13582	13692	13643
20°	12105	12179	12141
25°	11009	11180	11062
30°	10512	10842	10611
35°	10213	10557	10332
40°	9613	9900	9754
45°	9146	9217	9196
50°	8198	8154	8211
55°	7078	7080	7109
60°	5898	5971	5931
65°	4826	4869	4844
70°	3970	3994	3997
75°	3233	3275	3275
80°	2673	2694	2697
85°	2312	2331	2308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.6	2.9
10°-20°	1073.8	8.0
20°-30°	1526.7	11.4
30°-40°	1928.7	14.4
40°-50°	2066.9	15.4
50°-60°	1772.7	13.2
60°-70°	1254.0	9.3
70°-80°	796.0	5.9
80°-90°	496.1	3.7
90°-100°	398.8	3.0
100°-110°	387.3	2.9
110°-120°	373.7	2.8
120°-130°	316.6	2.4
130°-140°	259.9	1.9
140°-150°	192.7	1.4
150°-160°	116.8	0.9
160°-170°	59.0	0.4
170°-180°	14.7	0.1
0°-30°	2993.1	22.3
0°-40°	4921.8	36.7
0°-60°	8761.4	65.3
0°-90°	11307.5	84.2
90°-120°	1159.7	8.6
90°-150°	1929.0	14.4
90°-180°	2120.0	15.8
0°-180°	13427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4097	4097	4097	4097	4097	
5°	4126	4131	4135	4133	4130	392
15°	3816	3821	3847	3838	3833	1069
25°	3239	3288	3290	3310	3255	1507
35°	3050	3061	3152	3085	3085	1898
45°	2688	2694	2708	2714	2702	2051
55°	1983	1982	1984	1974	1992	1776
65°	1245	1253	1256	1253	1250	1244
75°	737	745	747	747	747	791
85°	442	441	445	442	441	387
90°	380	381	383	382	380	210
95°	360	361	363	363	362	295
105°	364	364	365	366	366	386
115°	377	378	379	380	381	372
125°	352	352	354	354	355	315
135°	335	335	335	337	338	260
145°	305	306	306	304	303	193
155°	250	250	250	249	251	116
165°	208	207	206	207	208	59
175°	144	143	142	143	143	15
180°	140	140	140	140	140	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4096.9	4096.9	4096.9	4096.9	4096.9
2.5°	4113.8	4113.8	4110.9	4113.1	4110.9
5°	4125.7	4130.8	4135.3	4133.0	4130.1
7.5°	4113.1	4118.3	4133.0	4129.4	4129.4
10°	4051.1	4060.7	4083.6	4076.9	4065.8
12.5°	3957.3	3973.5	3994.2	3981.6	3976.5
15°	3816.2	3821.4	3847.2	3837.6	3833.2
17.5°	3650.8	3650.8	3683.3	3681.8	3659.6
20°	3494.9	3506.0	3516.3	3526.7	3505.3
22.5°	3345.0	3383.4	3382.7	3401.9	3362.7
25°	3239.4	3288.1	3289.6	3309.5	3254.9
27.5°	3169.9	3224.6	3245.3	3243.8	3184.7
30°	3127.8	3159.6	3226.1	3185.5	3157.4
32.5°	3105.7	3107.2	3212.0	3132.3	3132.3
35°	3049.6	3060.6	3152.2	3085.0	3085.0
37.5°	2961.7	3004.5	3054.0	3027.4	2996.4
40°	2858.3	2929.2	2943.9	2939.5	2900.4
42.5°	2781.5	2821.3	2843.5	2838.3	2805.1
45°	2687.7	2693.6	2708.3	2714.2	2702.4
47.5°	2538.5	2536.3	2542.9	2546.6	2548.1
50°	2362.0	2345.0	2349.4	2348.7	2365.6
52.5°	2181.0	2159.6	2159.6	2155.9	2170.7
55°	1983.1	1982.3	1983.8	1973.5	1991.9
57.5°	1804.3	1810.2	1814.7	1802.1	1797.7
60°	1593.1	1613.0	1613.0	1607.9	1602.0
62.5°	1409.9	1424.7	1432.8	1421.0	1420.3
65°	1245.2	1252.6	1256.3	1253.4	1249.7
67.5°	1094.6	1103.4	1107.9	1101.2	1101.9
70°	968.3	971.2	974.2	980.8	974.9
72.5°	847.1	849.4	855.3	853.8	853.8
75°	737.1	745.2	746.7	746.7	746.7
77.5°	645.5	649.9	649.2	647.7	646.2
80°	562.1	566.5	566.5	566.5	567.2
82.5°	497.1	496.3	497.8	499.3	499.3
85°	441.7	440.9	445.4	441.7	440.9
87.5°	403.3	405.5	407.0	406.2	404.7
90°	380.4	381.1	382.6	381.8	380.4
92.5°	366.3	367.8	369.3	369.3	368.5
95°	360.4	361.2	362.6	362.6	361.9
97.5°	358.9	359.7	361.2	361.2	360.4
100°	359.7	360.4	361.2	361.2	361.9
102.5°	360.4	361.2	361.9	362.6	362.6
105°	364.1	364.1	364.9	365.6	366.3
107.5°	368.5	369.3	370.0	370.8	370.8
110°	373.7	374.5	374.5	375.9	375.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	377.4	378.1	378.1	379.6	380.4
115°	377.4	378.1	378.9	380.4	381.1
117.5°	374.5	374.5	375.2	376.7	378.1
120°	367.8	367.8	369.3	370.0	371.5
122.5°	359.7	360.4	361.9	362.6	363.4
125°	351.6	352.3	353.8	353.8	355.3
127.5°	340.5	342.7	344.2	344.2	344.9
130°	331.6	333.8	335.3	336.0	335.3
132.5°	329.4	331.6	333.8	332.4	330.9
135°	335.3	335.3	335.3	336.8	338.3
137.5°	341.2	339.7	334.6	340.5	342.7
140°	341.2	336.0	332.4	335.3	341.2
142.5°	324.2	322.8	315.4	321.3	323.5
145°	305.0	306.5	305.8	304.3	302.8
147.5°	288.8	291.7	294.0	288.0	288.0
150°	271.1	277.7	277.7	275.5	273.3
152.5°	261.5	262.9	262.9	261.5	262.2
155°	249.6	250.4	250.4	248.9	251.1
157.5°	237.8	239.3	239.3	239.3	238.6
160°	229.7	230.4	229.7	229.7	229.0
162.5°	219.4	218.6	218.6	218.6	219.4
165°	207.5	206.8	206.1	206.8	207.5
167.5°	193.5	193.5	192.8	192.8	192.8
170°	176.5	177.3	176.5	176.5	175.8
172.5°	154.4	153.6	154.4	154.4	155.1
175°	144.0	143.3	142.5	143.3	143.3
177.5°	140.3	141.1	141.1	140.3	139.6
180°	140.3	140.3	140.3	140.3	140.3

(END OF REPORT)