

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: P231460

Luminaire Tested: **SSLED-LD5-24-W-UNV-L850-CD2-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: P231460
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-LD5-24-W-UNV-L850-CD2-U-FRR22-FRCDL22
Description: STEELER WHITE REFRACTOR LENS AND CIRCULAR 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: 23321.0 lumens
Efficiency: N/A
Efficacy: 122.4 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

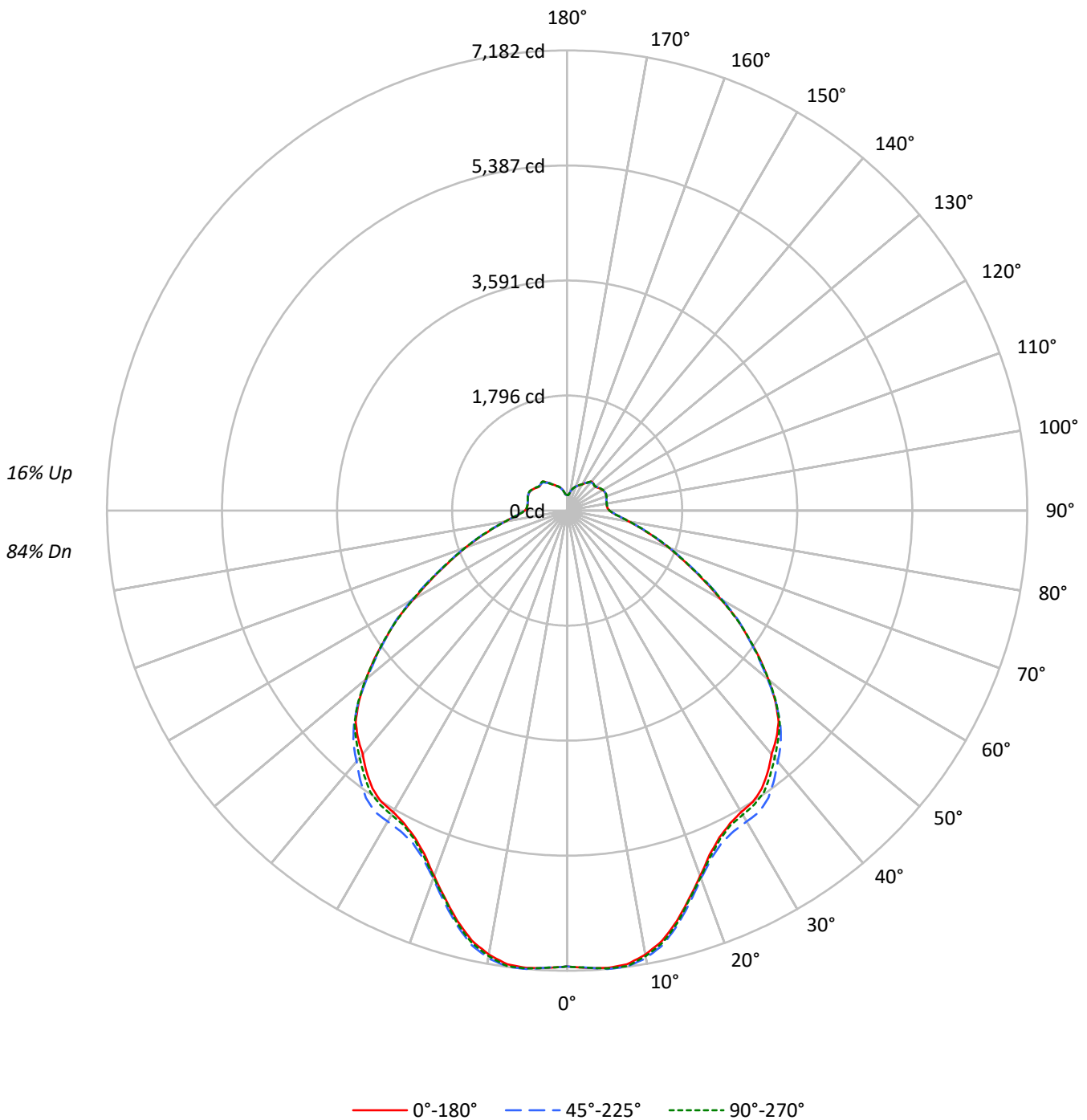
Input Watts (W): 190.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	29015	29015	29015
5°	27650	27714	27680
10°	25955	26163	26049
15°	23591	23782	23696
20°	21025	21154	21088
25°	19121	19418	19213
30°	18258	18831	18430
35°	17739	18336	17946
40°	16696	17196	16942
45°	15886	16008	15973
50°	14239	14163	14261
55°	12293	12297	12348
60°	10243	10371	10300
65°	8383	8457	8412
70°	6895	6936	6942
75°	5615	5688	5688
80°	4641	4678	4684
85°	4015	4049	4008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.8	2.9
10°-20°	1865.0	8.0
20°-30°	2651.8	11.4
30°-40°	3350.0	14.4
40°-50°	3590.0	15.4
50°-60°	3078.9	13.2
60°-70°	2178.1	9.3
70°-80°	1382.6	5.9
80°-90°	861.6	3.7
90°-100°	692.7	3.0
100°-110°	672.7	2.9
110°-120°	649.0	2.8
120°-130°	549.9	2.4
130°-140°	451.4	1.9
140°-150°	334.8	1.4
150°-160°	202.9	0.9
160°-170°	102.5	0.4
170°-180°	25.6	0.1
0°-30°	5198.5	22.3
0°-40°	8548.5	36.7
0°-60°	15217.3	65.3
0°-90°	19639.6	84.2
90°-120°	2014.3	8.6
90°-150°	3350.4	14.4
90°-180°	3681.0	15.8
0°-180°	23321.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7116	7116	7116	7116	7116	
5°	7166	7175	7182	7179	7173	680
15°	6628	6637	6682	6666	6658	1856
25°	5626	5711	5714	5748	5653	2618
35°	5297	5316	5475	5358	5358	3297
45°	4668	4678	4704	4714	4694	3561
55°	3444	3443	3446	3428	3460	3084
65°	2163	2176	2182	2177	2170	2161
75°	1280	1294	1297	1297	1297	1373
85°	767	766	774	767	766	672
90°	661	662	664	663	661	364
95°	626	627	630	630	629	512
105°	632	632	634	635	636	670
115°	656	657	658	661	662	647
125°	611	612	614	614	617	546
135°	582	582	582	585	588	451
145°	530	532	531	528	526	335
155°	434	435	435	432	436	202
165°	360	359	358	359	360	103
175°	250	249	248	249	249	26
180°	244	244	244	244	244	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7115.7	7115.7	7115.7	7115.7	7115.7
2.5°	7145.2	7145.2	7140.1	7143.9	7140.1
5°	7165.7	7174.7	7182.4	7178.6	7173.4
7.5°	7143.9	7152.9	7178.6	7172.2	7172.2
10°	7036.2	7052.9	7092.6	7081.1	7061.8
12.5°	6873.3	6901.5	6937.4	6915.6	6906.6
15°	6628.3	6637.2	6682.1	6665.5	6657.8
17.5°	6340.9	6340.9	6397.3	6394.8	6356.3
20°	6070.2	6089.5	6107.4	6125.4	6088.2
22.5°	5809.8	5876.5	5875.2	5908.6	5840.6
25°	5626.4	5711.0	5713.6	5748.2	5653.3
27.5°	5505.8	5600.7	5636.6	5634.1	5531.5
30°	5432.7	5487.8	5603.3	5532.7	5484.0
32.5°	5394.2	5396.8	5578.9	5440.4	5440.4
35°	5296.7	5315.9	5475.0	5358.3	5358.3
37.5°	5144.0	5218.5	5304.4	5258.2	5204.3
40°	4964.5	5087.6	5113.3	5105.6	5037.6
42.5°	4831.0	4900.3	4938.8	4929.8	4872.1
45°	4668.1	4678.4	4704.0	4714.3	4693.8
47.5°	4409.0	4405.2	4416.7	4423.1	4425.7
50°	4102.4	4072.9	4080.6	4079.3	4108.8
52.5°	3788.1	3750.9	3750.9	3744.5	3770.2
55°	3444.3	3443.0	3445.6	3427.7	3459.7
57.5°	3133.9	3144.2	3151.9	3130.0	3122.3
60°	2767.0	2801.6	2801.6	2792.7	2782.4
62.5°	2448.9	2474.5	2488.6	2468.1	2466.8
65°	2162.8	2175.6	2182.1	2176.9	2170.5
67.5°	1901.1	1916.5	1924.2	1912.7	1913.9
70°	1681.8	1686.9	1692.0	1703.6	1693.3
72.5°	1471.4	1475.2	1485.5	1482.9	1482.9
75°	1280.2	1294.4	1296.9	1296.9	1296.9
77.5°	1121.2	1128.9	1127.6	1125.0	1122.5
80°	976.2	983.9	983.9	983.9	985.2
82.5°	863.3	862.0	864.6	867.2	867.2
85°	767.1	765.8	773.5	767.1	765.8
87.5°	700.4	704.3	706.8	705.5	703.0
90°	660.6	661.9	664.5	663.2	660.6
92.5°	636.3	638.8	641.4	641.4	640.1
95°	626.0	627.3	629.9	629.9	628.6
97.5°	623.4	624.7	627.3	627.3	626.0
100°	624.7	626.0	627.3	627.3	628.6
102.5°	626.0	627.3	628.6	629.9	629.9
105°	632.4	632.4	633.7	635.0	636.3
107.5°	640.1	641.4	642.7	644.0	644.0
110°	649.1	650.4	650.4	652.9	652.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	655.5	656.8	656.8	659.4	660.6
115°	655.5	656.8	658.1	660.6	661.9
117.5°	650.4	650.4	651.7	654.2	656.8
120°	638.8	638.8	641.4	642.7	645.3
122.5°	624.7	626.0	628.6	629.9	631.1
125°	610.6	611.9	614.5	614.5	617.0
127.5°	591.4	595.2	597.8	597.8	599.1
130°	576.0	579.8	582.4	583.7	582.4
132.5°	572.1	576.0	579.8	577.3	574.7
135°	582.4	582.4	582.4	585.0	587.5
137.5°	592.7	590.1	581.1	591.4	595.2
140°	592.7	583.7	577.3	582.4	592.7
142.5°	563.2	560.6	547.8	558.0	561.9
145°	529.8	532.4	531.1	528.5	526.0
147.5°	501.6	506.7	510.6	500.3	500.3
150°	470.8	482.3	482.3	478.5	474.6
152.5°	454.1	456.7	456.7	454.1	455.4
155°	433.6	434.9	434.9	432.3	436.2
157.5°	413.1	415.6	415.6	415.6	414.3
160°	399.0	400.2	399.0	399.0	397.7
162.5°	381.0	379.7	379.7	379.7	381.0
165°	360.5	359.2	357.9	359.2	360.5
167.5°	336.1	336.1	334.8	334.8	334.8
170°	306.6	307.9	306.6	306.6	305.3
172.5°	268.1	266.8	268.1	268.1	269.4
175°	250.1	248.9	247.6	248.9	248.9
177.5°	243.7	245.0	245.0	243.7	242.5
180°	243.7	243.7	243.7	243.7	243.7

(END OF REPORT)