

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: P231525

Luminaire Tested: **SSLED-LD5-30-W-UNV-L840-CD2-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: P231525
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-LD5-30-W-UNV-L840-CD2-U-CLR22-FRCDL22
Description: STEELER CLEAR REFRACTOR LENS AND CIRCULAR DROP
Light Source: (240) 4000 CCT, 80 CRI LEDS
Ballast/Driver: (2) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27801.0 lumens
Efficiency: N/A
Efficacy: 104.4 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

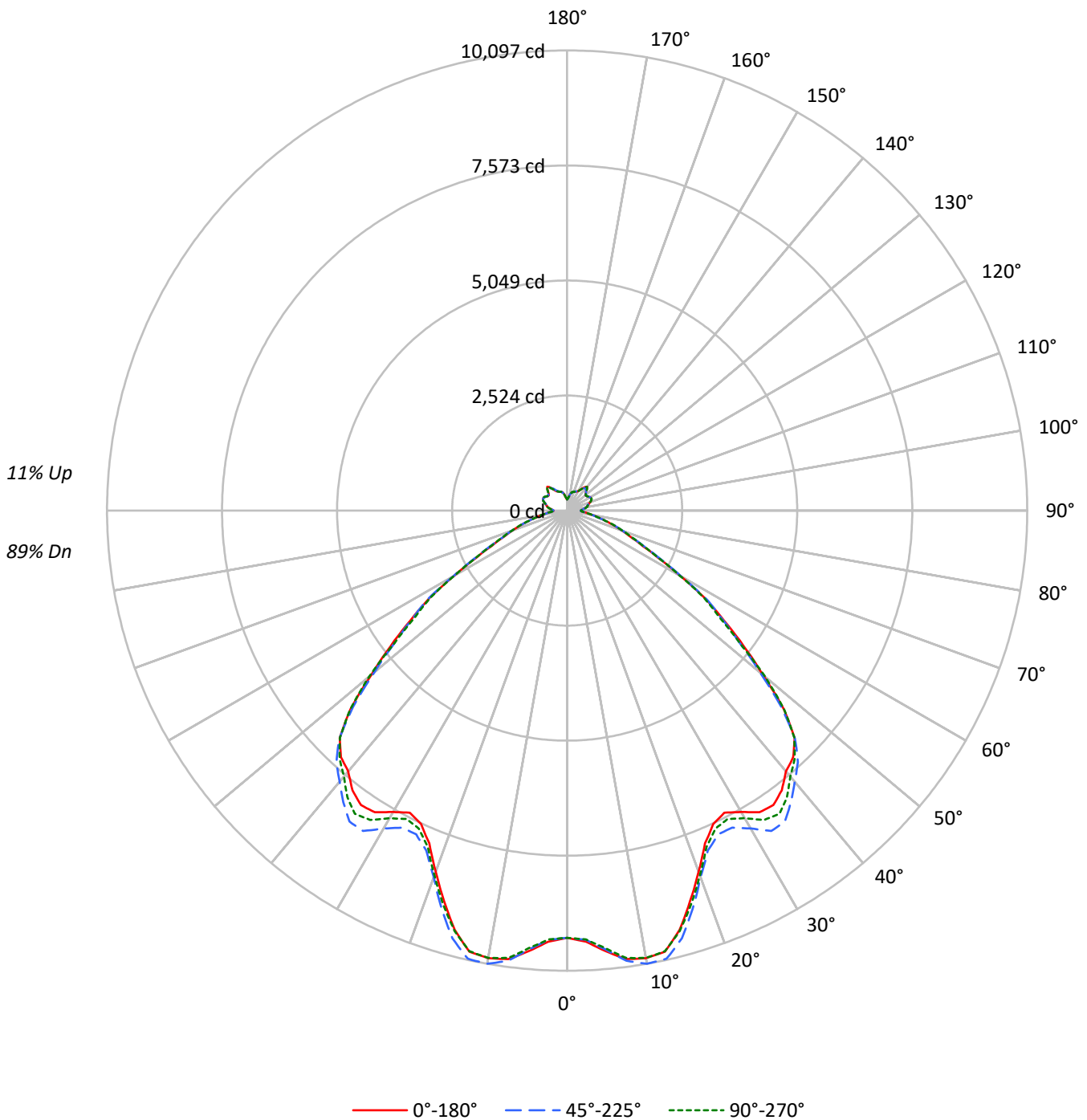
Input Watts (W): 266.35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	38219	38219	38219
5°	37448	37297	37187
10°	36780	37244	36768
15°	33908	34586	33975
20°	29212	29637	29506
25°	25785	26635	26170
30°	25657	27064	26192
35°	26422	27897	27197
40°	25130	26124	25616
45°	24021	24064	23988
50°	19474	19201	19676
55°	14977	14809	14533
60°	10642	10712	10555
65°	7062	7257	7147
70°	5231	5289	5308
75°	3803	3809	3809
80°	2716	2678	2701
85°	1894	1903	1903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	936.2	3.4
10°-20°	2666.3	9.6
20°-30°	3674.2	13.2
30°-40°	4997.9	18.0
40°-50°	5327.6	19.2
50°-60°	3757.9	13.5
60°-70°	1918.1	6.9
70°-80°	939.5	3.4
80°-90°	426.0	1.5
90°-100°	393.3	1.4
100°-110°	505.3	1.8
110°-120°	571.7	2.1
120°-130°	492.2	1.8
130°-140°	457.9	1.6
140°-150°	373.2	1.3
150°-160°	217.3	0.8
160°-170°	117.3	0.4
170°-180°	29.3	0.1
0°-30°	7276.7	26.2
0°-40°	12274.7	44.2
0°-60°	21360.1	76.8
0°-90°	24643.7	88.6
90°-120°	1470.3	5.3
90°-150°	2793.5	10.0
90°-180°	3157.0	11.4
0°-180°	27801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9373	9373	9373	9373	9373	
5°	9705	9685	9666	9634	9637	936
15°	9527	9611	9718	9614	9546	2642
25°	7587	7852	7837	7932	7700	3576
35°	7889	7907	8330	8025	8121	4871
45°	7058	7032	7071	7098	7049	5284
55°	4196	4236	4149	4165	4072	3770
65°	1822	1842	1872	1854	1844	1892
75°	867	864	868	862	868	938
85°	362	364	364	362	364	342
90°	299	300	299	302	302	168
95°	357	356	354	359	360	307
105°	480	475	469	470	474	507
115°	587	585	584	585	592	572
125°	541	540	543	543	546	491
135°	590	588	590	600	601	459
145°	600	592	601	592	592	376
155°	458	459	464	459	463	214
165°	417	414	414	411	417	117
175°	283	282	278	282	282	29
180°	244	244	244	244	244	



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CATALOG NUMBER: SSLED-LD5-30-W-UNV-L840-CD2-U-CLR22-FRCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9373.0	9373.0	9373.0	9373.0	9373.0
2.5°	9467.4	9451.7	9426.5	9420.2	9415.5
5°	9705.0	9684.6	9665.7	9634.2	9637.4
7.5°	9928.4	9941.0	9963.1	9925.3	9900.1
10°	9970.9	10018.1	10096.8	10032.3	9967.8
12.5°	9914.3	9989.8	10073.2	9978.8	9903.3
15°	9527.2	9610.6	9717.6	9613.8	9546.1
17.5°	8979.7	9050.5	9162.2	9045.7	9055.2
20°	8433.7	8510.8	8556.4	8581.6	8518.6
22.5°	7903.4	8106.4	8073.3	8170.9	7986.8
25°	7587.2	7851.5	7837.3	7931.7	7700.4
27.5°	7472.3	7780.7	7840.5	7845.2	7626.5
30°	7634.4	7757.1	8052.9	7845.2	7793.3
32.5°	7849.9	7805.9	8336.1	7933.3	8048.2
35°	7889.3	7906.6	8329.8	8024.6	8120.6
37.5°	7735.1	7927.0	8067.1	8049.7	7923.9
40°	7472.3	7780.7	7768.1	7857.8	7617.0
42.5°	7343.3	7494.3	7494.3	7558.8	7390.5
45°	7058.5	7031.7	7071.1	7097.8	7049.0
47.5°	6448.0	6397.6	6372.5	6465.3	6460.6
50°	5610.9	5577.9	5532.2	5642.4	5669.1
52.5°	4880.8	4811.6	4769.1	4800.6	4770.7
55°	4196.4	4235.7	4149.2	4164.9	4072.1
57.5°	3590.6	3678.7	3639.4	3626.8	3557.6
60°	2874.7	2936.0	2893.6	2912.4	2851.1
62.5°	2261.0	2303.5	2322.4	2314.5	2283.1
65°	1822.0	1842.5	1872.4	1853.5	1844.1
67.5°	1504.2	1523.1	1531.0	1526.2	1532.5
70°	1276.1	1280.8	1290.2	1276.1	1294.9
72.5°	1068.4	1077.8	1077.8	1079.4	1088.8
75°	867.0	863.8	868.5	862.2	868.5
77.5°	697.0	697.0	693.9	690.7	700.2
80°	571.2	564.9	563.3	561.7	568.0
82.5°	454.7	456.3	456.3	454.7	453.2
85°	361.9	363.5	363.5	361.9	363.5
87.5°	311.5	311.5	313.1	313.1	311.5
90°	299.0	300.5	299.0	302.1	302.1
92.5°	319.4	319.4	321.0	324.1	322.6
95°	357.2	355.6	354.0	358.7	360.3
97.5°	393.4	391.8	394.9	398.1	401.2
100°	434.3	434.3	437.4	439.0	442.1
102.5°	451.6	451.6	450.0	454.7	457.9
105°	479.9	475.2	468.9	470.5	473.6
107.5°	501.9	500.4	498.8	501.9	503.5
110°	535.0	533.4	533.4	533.4	536.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	568.0	568.0	566.4	568.0	571.2
115°	586.9	585.3	583.7	585.3	591.6
117.5°	591.6	591.6	588.5	593.2	597.9
120°	583.7	582.2	582.2	585.3	590.0
122.5°	563.3	561.7	561.7	564.9	569.6
125°	541.3	539.7	542.8	542.8	546.0
127.5°	525.5	527.1	530.3	527.1	528.7
130°	528.7	530.3	536.5	531.8	531.8
132.5°	546.0	547.6	558.6	555.4	555.4
135°	590.0	588.5	590.0	599.5	601.1
137.5°	640.4	627.8	610.5	642.0	649.8
140°	682.9	648.3	642.0	656.1	679.7
142.5°	651.4	632.5	616.8	635.7	649.8
145°	599.5	591.6	601.1	591.6	591.6
147.5°	539.7	550.7	571.2	542.8	541.3
150°	494.1	516.1	524.0	508.2	497.2
152.5°	473.6	483.0	487.8	479.9	479.9
155°	457.9	459.4	464.2	459.4	462.6
157.5°	446.9	451.6	451.6	451.6	450.0
160°	437.4	443.7	442.1	442.1	439.0
162.5°	431.1	434.3	432.7	432.7	432.7
165°	417.0	413.8	413.8	410.7	417.0
167.5°	393.4	388.6	388.6	387.1	391.8
170°	363.5	363.5	361.9	361.9	358.7
172.5°	314.7	313.1	311.5	311.5	311.5
175°	283.2	281.6	278.5	281.6	281.6
177.5°	259.6	259.6	261.2	258.0	258.0
180°	243.9	243.9	243.9	243.9	243.9

(END OF REPORT)