

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: P231526

Luminaire Tested: **SSLED-LD5-30-W-UNV-L850-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: P231526
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-L850-CD2-U-CLR22-FRCDL22
Description: STEELER CLEAR 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: 28680.0 lumens
Efficiency: N/A
Efficacy: 107.7 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

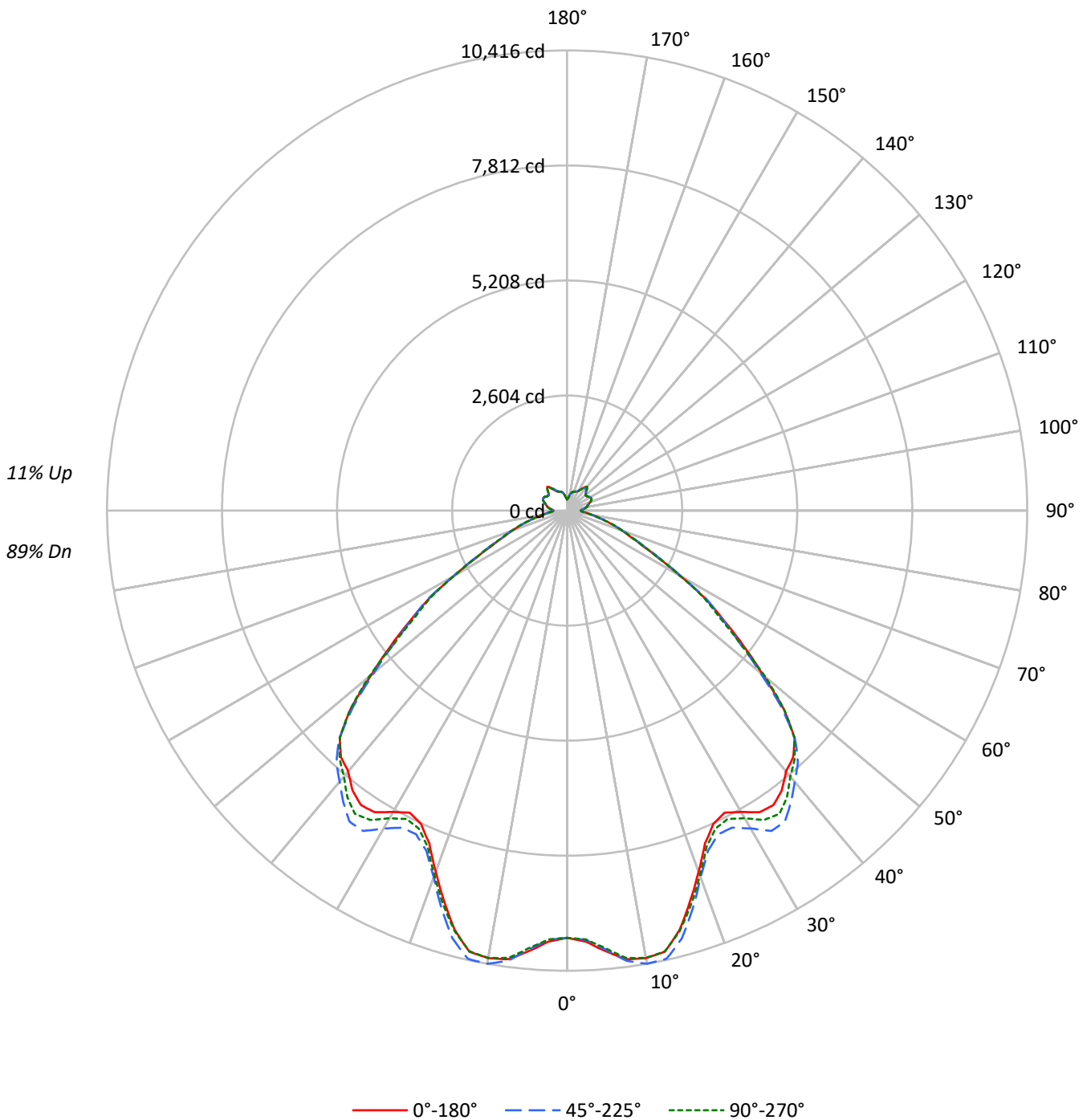
Input Watts (W): 266.35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	39427	39427	39427
5°	38632	38476	38363
10°	37943	38422	37931
15°	34980	35679	35049
20°	30135	30574	30439
25°	26600	27477	26997
30°	26468	27920	27020
35°	27257	28780	28057
40°	25924	26950	26426
45°	24780	24824	24747
50°	20090	19808	20299
55°	15451	15277	14993
60°	10979	11051	10888
65°	7285	7487	7373
70°	5397	5456	5477
75°	3923	3930	3930
80°	2801	2763	2786
85°	1954	1963	1963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	965.8	3.4
10°-20°	2750.6	9.6
20°-30°	3790.4	13.2
30°-40°	5156.0	18.0
40°-50°	5496.0	19.2
50°-60°	3876.7	13.5
60°-70°	1978.8	6.9
70°-80°	969.2	3.4
80°-90°	439.5	1.5
90°-100°	405.7	1.4
100°-110°	521.3	1.8
110°-120°	589.8	2.1
120°-130°	507.7	1.8
130°-140°	472.3	1.6
140°-150°	385.0	1.3
150°-160°	224.1	0.8
160°-170°	121.0	0.4
170°-180°	30.2	0.1
0°-30°	7506.8	26.2
0°-40°	12662.8	44.2
0°-60°	22035.4	76.8
0°-90°	25422.9	88.6
90°-120°	1516.8	5.3
90°-150°	2881.8	10.0
90°-180°	3257.0	11.4
0°-180°	28680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9669	9669	9669	9669	9669	
5°	10012	9991	9971	9939	9942	966
15°	9828	9914	10025	9918	9848	2726
25°	7827	8100	8085	8182	7944	3689
35°	8139	8156	8593	8278	8377	5025
45°	7282	7254	7295	7322	7272	5451
55°	4329	4370	4280	4297	4201	3889
65°	1880	1901	1932	1912	1902	1951
75°	894	891	896	890	896	967
85°	373	375	375	373	375	353
90°	308	310	308	312	312	174
95°	368	367	365	370	372	317
105°	495	490	484	485	489	523
115°	606	604	602	604	610	590
125°	558	557	560	560	563	506
135°	609	607	609	618	620	474
145°	618	610	620	610	610	388
155°	472	474	479	474	477	221
165°	430	427	427	424	430	121
175°	292	291	287	291	291	30
180°	252	252	252	252	252	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9669.4	9669.4	9669.4	9669.4	9669.4
2.5°	9766.8	9750.5	9724.6	9718.1	9713.2
5°	10011.9	9990.8	9971.3	9938.8	9942.1
7.5°	10242.4	10255.3	10278.1	10239.1	10213.1
10°	10286.2	10334.9	10416.0	10349.5	10282.9
12.5°	10227.7	10305.7	10391.7	10294.3	10216.4
15°	9828.4	9914.5	10024.8	9917.7	9847.9
17.5°	9263.6	9336.6	9451.9	9331.7	9341.5
20°	8700.3	8779.9	8826.9	8852.9	8788.0
22.5°	8153.3	8362.7	8328.6	8429.2	8239.3
25°	7827.0	8099.7	8085.1	8182.5	7943.9
27.5°	7708.5	8026.7	8088.4	8093.2	7867.6
30°	7875.7	8002.3	8307.5	8093.2	8039.7
32.5°	8098.1	8052.7	8599.7	8184.1	8302.6
35°	8138.7	8156.5	8593.2	8278.3	8377.3
37.5°	7979.6	8177.7	8322.1	8304.3	8174.4
40°	7708.5	8026.7	8013.7	8106.2	7857.9
42.5°	7575.4	7731.3	7731.3	7797.8	7624.1
45°	7281.6	7254.1	7294.6	7322.2	7271.9
47.5°	6651.8	6599.9	6573.9	6669.7	6664.8
50°	5788.3	5754.2	5707.1	5820.8	5848.4
52.5°	5035.1	4963.7	4919.9	4952.4	4921.5
55°	4329.1	4369.6	4280.4	4296.6	4200.8
57.5°	3704.1	3795.0	3754.4	3741.5	3670.0
60°	2965.6	3028.9	2985.1	3004.5	2941.2
62.5°	2332.5	2376.4	2395.8	2387.7	2355.3
65°	1879.7	1900.8	1931.6	1912.1	1902.4
67.5°	1551.8	1571.3	1579.4	1574.5	1581.0
70°	1316.4	1321.3	1331.0	1316.4	1335.9
72.5°	1102.1	1111.9	1111.9	1113.5	1123.3
75°	894.4	891.1	896.0	889.5	896.0
77.5°	719.1	719.1	715.8	712.6	722.3
80°	589.2	582.7	581.1	579.5	586.0
82.5°	469.1	470.7	470.7	469.1	467.5
85°	373.3	375.0	375.0	373.3	375.0
87.5°	321.4	321.4	323.0	323.0	321.4
90°	308.4	310.0	308.4	311.7	311.7
92.5°	329.5	329.5	331.1	334.4	332.8
95°	368.5	366.8	365.2	370.1	371.7
97.5°	405.8	404.2	407.4	410.7	413.9
100°	448.0	448.0	451.2	452.9	456.1
102.5°	465.9	465.9	464.2	469.1	472.3
105°	495.1	490.2	483.7	485.3	488.6
107.5°	517.8	516.2	514.6	517.8	519.4
110°	551.9	550.3	550.3	550.3	553.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	586.0	586.0	584.3	586.0	589.2
115°	605.5	603.8	602.2	603.8	610.3
117.5°	610.3	610.3	607.1	611.9	616.8
120°	602.2	600.6	600.6	603.8	608.7
122.5°	581.1	579.5	579.5	582.7	587.6
125°	558.4	556.8	560.0	560.0	563.2
127.5°	542.1	543.8	547.0	543.8	545.4
130°	545.4	547.0	553.5	548.6	548.6
132.5°	563.2	564.9	576.2	573.0	573.0
135°	608.7	607.1	608.7	618.4	620.1
137.5°	660.6	647.7	629.8	662.3	670.4
140°	704.5	668.8	662.3	676.9	701.2
142.5°	672.0	652.5	636.3	655.8	670.4
145°	618.4	610.3	620.1	610.3	610.3
147.5°	556.8	568.1	589.2	560.0	558.4
150°	509.7	532.4	540.5	524.3	512.9
152.5°	488.6	498.3	503.2	495.1	495.1
155°	472.3	474.0	478.8	474.0	477.2
157.5°	461.0	465.9	465.9	465.9	464.2
160°	451.2	457.7	456.1	456.1	452.9
162.5°	444.8	448.0	446.4	446.4	446.4
165°	430.1	426.9	426.9	423.7	430.1
167.5°	405.8	400.9	400.9	399.3	404.2
170°	375.0	375.0	373.3	373.3	370.1
172.5°	324.6	323.0	321.4	321.4	321.4
175°	292.2	290.6	287.3	290.6	290.6
177.5°	267.8	267.8	269.5	266.2	266.2
180°	251.6	251.6	251.6	251.6	251.6

(END OF REPORT)