

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: P231524

Luminaire Tested: **SSLED-LD5-30-W-UNV-L835-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: P231524
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-L835-CD2-U-CLR22-FRCDL22
Description: STEELER CLEAR REFRACTOR LENS AND CIRCULAR DROP
Light Source: (240) 3500 CCT, 80 CRI LEDS
Ballast/Driver: (2) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25994.0 lumens
Efficiency: N/A
Efficacy: 97.6 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

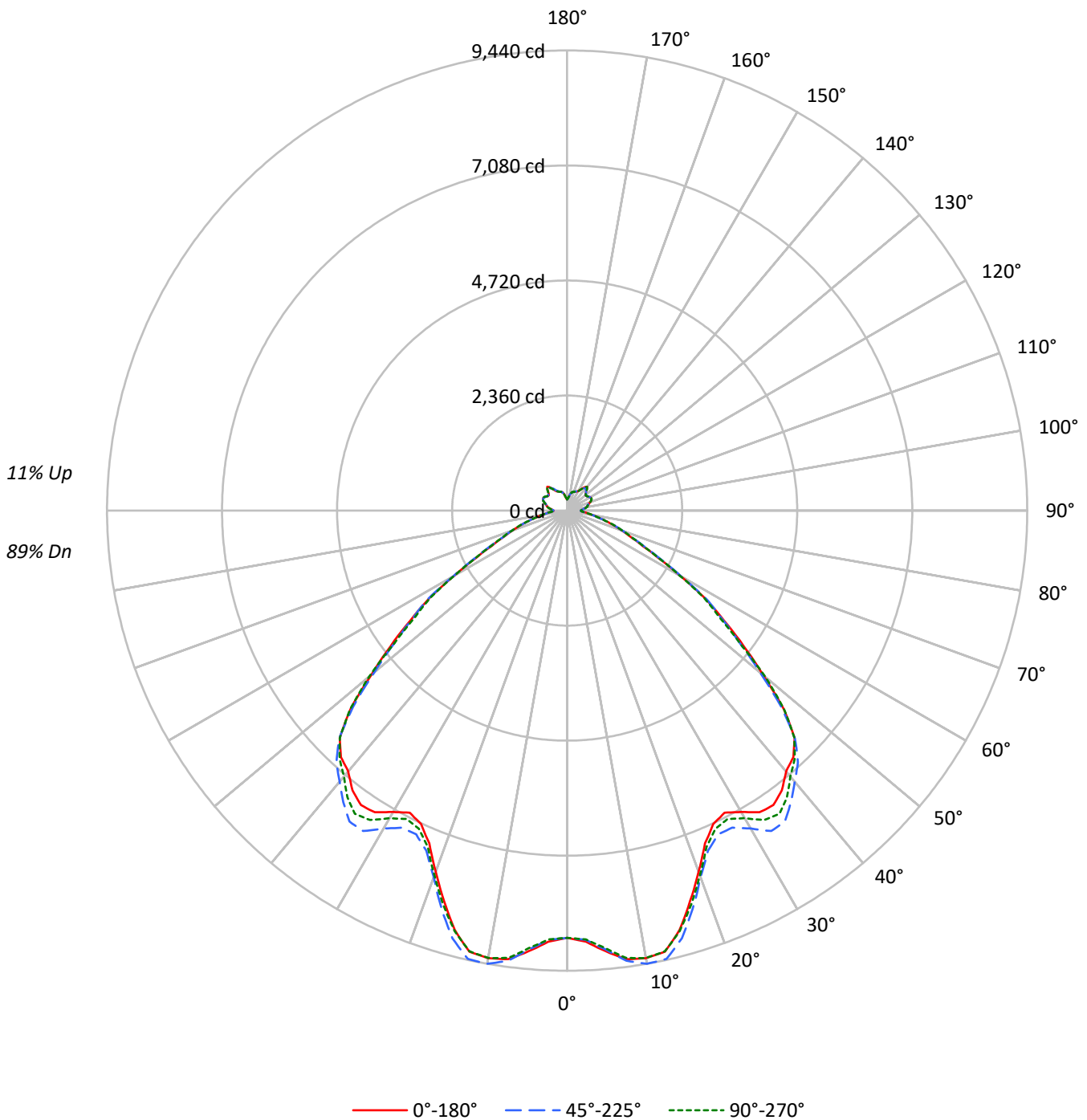
Input Watts (W): 266.35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	35735	35735	35735
5°	35014	34872	34770
10°	34389	34823	34379
15°	31704	32338	31767
20°	27313	27710	27588
25°	24109	24904	24469
30°	23990	25305	24489
35°	24705	26084	25429
40°	23496	24426	23952
45°	22459	22499	22429
50°	18209	17954	18397
55°	14003	13846	13589
60°	9950	10016	9869
65°	6603	6785	6683
70°	4891	4946	4964
75°	3555	3562	3562
80°	2539	2504	2525
85°	1771	1779	1779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	875.4	3.4
10°-20°	2493.0	9.6
20°-30°	3435.4	13.2
30°-40°	4673.1	18.0
40°-50°	4981.3	19.2
50°-60°	3513.6	13.5
60°-70°	1793.4	6.9
70°-80°	878.4	3.4
80°-90°	398.3	1.5
90°-100°	367.7	1.4
100°-110°	472.5	1.8
110°-120°	534.5	2.1
120°-130°	460.2	1.8
130°-140°	428.1	1.6
140°-150°	348.9	1.3
150°-160°	203.1	0.8
160°-170°	109.6	0.4
170°-180°	27.4	0.1
0°-30°	6803.8	26.2
0°-40°	11476.8	44.2
0°-60°	19971.7	76.8
0°-90°	23041.9	88.6
90°-120°	1374.7	5.3
90°-150°	2611.9	10.0
90°-180°	2952.0	11.4
0°-180°	25994.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8764	8764	8764	8764	8764	
5°	9074	9055	9037	9008	9011	875
15°	8908	8986	9086	8989	8926	2470
25°	7094	7341	7328	7416	7200	3343
35°	7376	7393	7788	7503	7593	4554
45°	6600	6575	6612	6636	6591	4941
55°	3924	3960	3880	3894	3807	3525
65°	1704	1723	1751	1733	1724	1769
75°	811	808	812	806	812	877
85°	338	340	340	338	340	320
90°	280	281	280	282	282	157
95°	334	332	331	335	337	287
105°	449	444	438	440	443	474
115°	549	547	546	547	553	535
125°	506	505	508	508	510	459
135°	552	550	552	560	562	430
145°	560	553	562	553	553	352
155°	428	430	434	430	432	200
165°	390	387	387	384	390	110
175°	265	263	260	263	263	28
180°	228	228	228	228	228	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8763.8	8763.8	8763.8	8763.8	8763.8
2.5°	8852.1	8837.3	8813.8	8807.9	8803.5
5°	9074.2	9055.1	9037.4	9008.0	9010.9
7.5°	9283.1	9294.9	9315.5	9280.2	9256.6
10°	9322.8	9367.0	9440.5	9380.2	9319.9
12.5°	9269.9	9340.5	9418.5	9330.2	9259.6
15°	8908.0	8985.9	9086.0	8988.9	8925.6
17.5°	8396.0	8462.2	8566.7	8457.8	8466.6
20°	7885.5	7957.6	8000.2	8023.8	7964.9
22.5°	7389.7	7579.5	7548.6	7639.8	7467.7
25°	7094.0	7341.2	7327.9	7416.2	7199.9
27.5°	6986.6	7275.0	7330.9	7335.3	7130.8
30°	7138.1	7252.9	7529.5	7335.3	7286.7
32.5°	7339.7	7298.5	7794.3	7417.7	7525.1
35°	7376.5	7392.7	7788.4	7503.0	7592.7
37.5°	7232.3	7411.8	7542.7	7526.5	7408.8
40°	6986.6	7275.0	7263.2	7347.0	7122.0
42.5°	6866.0	7007.2	7007.2	7067.5	6910.1
45°	6599.7	6574.7	6611.5	6636.5	6590.9
47.5°	6028.9	5981.8	5958.3	6045.1	6040.6
50°	5246.2	5215.3	5172.7	5275.6	5300.6
52.5°	4563.6	4498.9	4459.1	4488.6	4460.6
55°	3923.6	3960.4	3879.5	3894.2	3807.4
57.5°	3357.2	3439.6	3402.8	3391.1	3326.3
60°	2687.8	2745.2	2705.5	2723.1	2665.8
62.5°	2114.1	2153.8	2171.5	2164.1	2134.7
65°	1703.6	1722.7	1750.7	1733.0	1724.2
67.5°	1406.4	1424.1	1431.5	1427.0	1432.9
70°	1193.1	1197.5	1206.4	1193.1	1210.8
72.5°	998.9	1007.8	1007.8	1009.2	1018.1
75°	810.6	807.7	812.1	806.2	812.1
77.5°	651.7	651.7	648.8	645.8	654.7
80°	534.0	528.2	526.7	525.2	531.1
82.5°	425.2	426.6	426.6	425.2	423.7
85°	338.4	339.8	339.8	338.4	339.8
87.5°	291.3	291.3	292.8	292.8	291.3
90°	279.5	281.0	279.5	282.5	282.5
92.5°	298.6	298.6	300.1	303.1	301.6
95°	334.0	332.5	331.0	335.4	336.9
97.5°	367.8	366.3	369.3	372.2	375.1
100°	406.0	406.0	409.0	410.5	413.4
102.5°	422.2	422.2	420.8	425.2	428.1
105°	448.7	444.3	438.4	439.9	442.8
107.5°	469.3	467.8	466.4	469.3	470.8
110°	500.2	498.7	498.7	498.7	501.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	531.1	531.1	529.6	531.1	534.0
115°	548.7	547.3	545.8	547.3	553.2
117.5°	553.2	553.2	550.2	554.6	559.0
120°	545.8	544.3	544.3	547.3	551.7
122.5°	526.7	525.2	525.2	528.2	532.6
125°	506.1	504.6	507.6	507.6	510.5
127.5°	491.4	492.8	495.8	492.8	494.3
130°	494.3	495.8	501.7	497.3	497.3
132.5°	510.5	512.0	522.3	519.3	519.3
135°	551.7	550.2	551.7	560.5	562.0
137.5°	598.8	587.0	570.8	600.2	607.6
140°	638.5	606.1	600.2	613.5	635.5
142.5°	609.1	591.4	576.7	594.4	607.6
145°	560.5	553.2	562.0	553.2	553.2
147.5°	504.6	514.9	534.0	507.6	506.1
150°	461.9	482.5	489.9	475.2	464.9
152.5°	442.8	451.7	456.1	448.7	448.7
155°	428.1	429.6	434.0	429.6	432.5
157.5°	417.8	422.2	422.2	422.2	420.8
160°	409.0	414.9	413.4	413.4	410.5
162.5°	403.1	406.0	404.6	404.6	404.6
165°	389.9	386.9	386.9	384.0	389.9
167.5°	367.8	363.4	363.4	361.9	366.3
170°	339.8	339.8	338.4	338.4	335.4
172.5°	294.2	292.8	291.3	291.3	291.3
175°	264.8	263.3	260.4	263.3	263.3
177.5°	242.7	242.7	244.2	241.3	241.3
180°	228.0	228.0	228.0	228.0	228.0

(END OF REPORT)