

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: P231472

Luminaire Tested: **SSLED-LD5-12-W-UNV-L850-CD1-U-CLR22**

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: P231472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSLED-LD5-12-W-UNV-L850-CD1-U-CLR22
Description: STEELER CLEAR REFRACTOR LENS
Light Source: (240) 5000 CCT, 80 CRI LEDS
Ballast/Driver: (1) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12397.0 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 1.48 / 1.49
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')
CIE Type: Direct

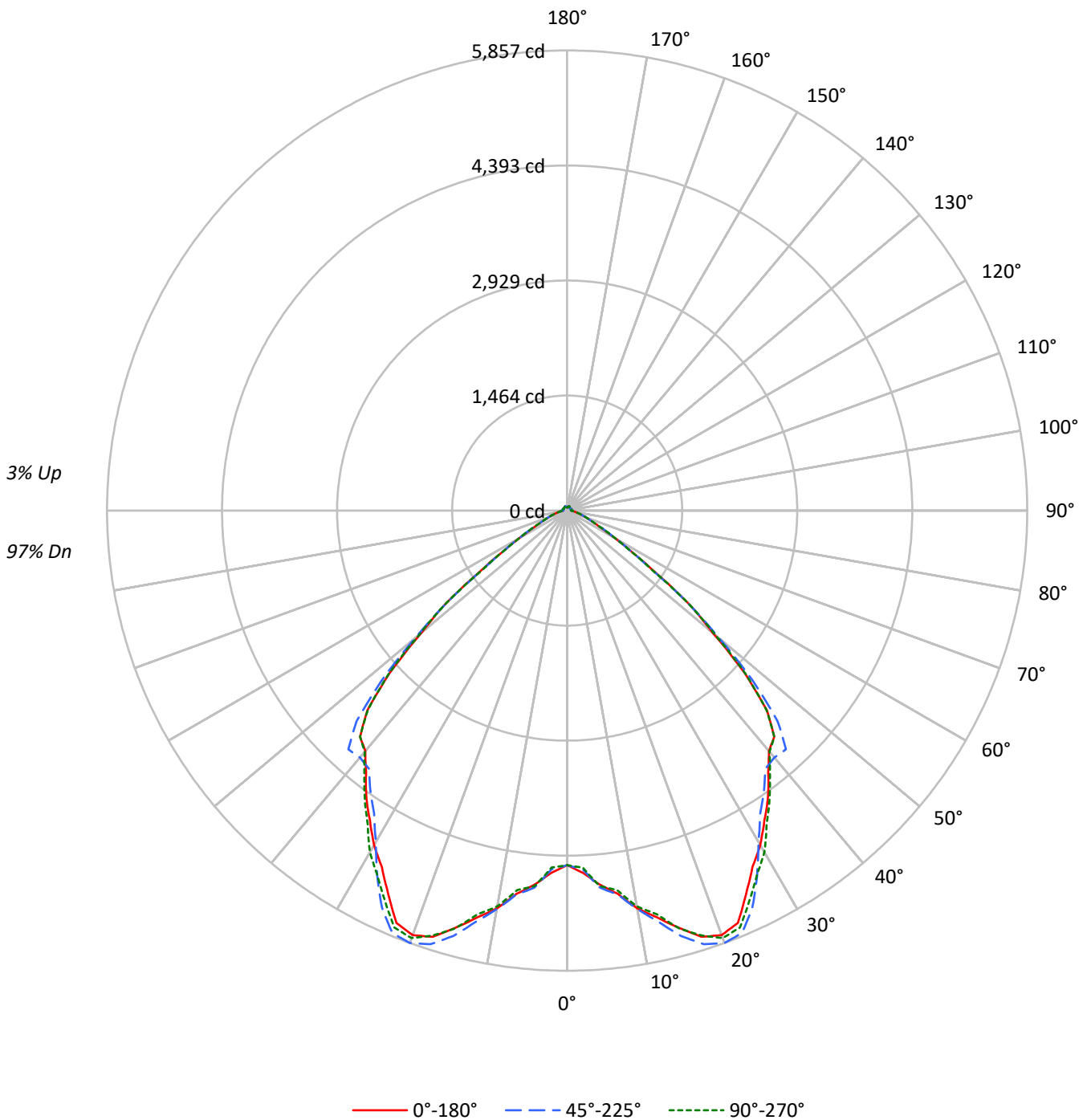
Input Watts (W): 85.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97								
1	111	107	103	100	108	104	101	99	100	97	95	95	94	92	92	90	89	86								
2	103	96	91	86	100	94	89	85	90	86	82	87	83	80	83	81	78	76								
3	95	86	80	74	93	85	78	73	81	76	72	78	74	70	76	72	69	67								
4	88	78	70	65	86	76	70	64	74	68	63	71	66	62	69	65	61	59								
5	82	71	63	57	80	69	62	57	67	61	56	65	59	55	63	58	54	52								
6	76	64	56	51	74	63	56	50	61	55	50	59	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	49	45	54	49	44	53	48	44	42								
8	66	54	46	41	64	53	46	41	52	45	40	50	44	40	49	43	39	38								
9	62	50	42	37	60	49	42	37	48	41	36	46	40	36	45	40	36	34								
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18406	18406	18406
5°	18438	18598	18519
10°	18957	19001	18865
15°	19568	19949	19589
20°	19916	20287	20052
25°	18305	18955	18640
30°	16521	16359	16876
35°	14931	14625	15043
40°	13434	13804	13481
45°	12234	12890	12212
50°	8401	8757	8531
55°	4849	4685	4732
60°	2618	2665	2623
65°	1506	1569	1529
70°	1029	1056	1056
75°	729	741	732
80°	544	550	541
85°	389	392	385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.6	3.8
10°-20°	1578.8	12.7
20°-30°	2532.4	20.4
30°-40°	2784.6	22.5
40°-50°	2709.8	21.9
50°-60°	1299.2	10.5
60°-70°	424.8	3.4
70°-80°	185.2	1.5
80°-90°	85.5	0.7
90°-100°	58.2	0.5
100°-110°	59.1	0.5
110°-120°	53.5	0.4
120°-130°	42.6	0.3
130°-140°	37.6	0.3
140°-150°	34.5	0.3
150°-160°	26.9	0.2
160°-170°	14.6	0.1
170°-180°	4.0	0.0
0°-30°	4576.8	36.9
0°-40°	7361.4	59.4
0°-60°	11370.4	91.7
0°-90°	12065.9	97.3
90°-120°	170.9	1.4
90°-150°	285.6	2.3
90°-180°	331.0	2.7
0°-180°	12397.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4514	4514	4514	4514	4514	
5°	4778	4775	4820	4801	4799	466
15°	5498	5559	5605	5540	5504	1564
25°	5386	5574	5578	5638	5485	2476
35°	4458	4362	4367	4406	4492	2783
45°	3595	3550	3788	3554	3588	2649
55°	1359	1365	1313	1354	1326	1294
65°	388	396	405	403	394	416
75°	166	168	169	168	167	183
85°	74	74	75	75	74	69
90°	52	53	53	54	53	29
95°	49	49	49	51	51	43
105°	60	55	55	53	57	60
115°	52	55	55	55	53	53
125°	45	45	45	46	47	42
135°	49	48	47	48	49	38
145°	55	55	55	55	56	34
155°	58	58	58	58	58	27
165°	52	51	51	51	50	15
175°	41	41	40	40	41	4
180°	41	41	41	41	41	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4514.0	4514.0	4514.0	4514.0	4514.0
2.5°	4614.6	4590.9	4568.6	4552.1	4548.2
5°	4778.3	4775.0	4819.7	4801.3	4799.3
7.5°	4919.6	4928.1	4926.2	4902.5	4871.6
10°	5139.2	5141.1	5151.0	5137.8	5114.2
12.5°	5306.1	5381.7	5358.7	5335.0	5261.4
15°	5498.1	5559.2	5605.2	5540.1	5504.0
17.5°	5687.4	5752.5	5786.6	5770.2	5669.0
20°	5749.8	5851.1	5857.0	5872.8	5789.3
22.5°	5679.5	5795.2	5816.9	5847.1	5743.9
25°	5386.3	5574.3	5577.6	5638.1	5484.9
27.5°	5110.2	5268.6	5235.1	5347.5	5231.2
30°	4915.7	4943.3	4867.7	5009.7	5021.5
32.5°	4673.7	4605.4	4572.5	4639.6	4727.0
35°	4458.1	4362.2	4366.8	4405.6	4491.7
37.5°	4205.7	4272.8	4142.6	4326.7	4239.9
40°	3994.7	4124.2	4104.5	4155.8	4008.5
42.5°	3901.4	3888.9	4122.9	3896.8	3902.0
45°	3595.0	3549.7	3787.6	3553.6	3588.5
47.5°	3065.2	3213.1	3204.6	3257.2	3084.3
50°	2420.4	2571.5	2522.9	2634.7	2457.8
52.5°	1954.3	1889.2	1941.2	1909.6	1954.3
55°	1358.7	1365.3	1312.7	1353.5	1325.9
57.5°	963.7	985.4	966.3	965.0	955.1
60°	707.3	709.9	719.8	717.8	708.6
62.5°	517.3	522.6	533.8	533.1	527.2
65°	388.5	395.7	404.9	403.0	394.4
67.5°	303.0	310.9	312.9	314.2	315.5
70°	251.1	253.7	257.7	257.7	257.7
72.5°	209.0	212.3	213.0	213.6	212.3
75°	166.3	167.6	168.9	167.6	167.0
77.5°	137.4	137.4	136.7	136.1	136.7
80°	114.4	115.0	115.7	114.4	113.7
82.5°	93.3	94.0	94.7	94.0	94.0
85°	74.3	74.3	74.9	74.9	73.6
87.5°	61.1	61.1	61.1	61.8	61.1
90°	51.9	53.2	53.2	53.9	52.6
92.5°	46.7	48.0	48.0	49.3	48.0
95°	49.3	48.6	49.3	50.6	51.3
97.5°	55.2	56.5	58.5	60.5	58.5
100°	57.8	62.4	63.8	63.8	59.8
102.5°	56.5	55.9	58.5	57.2	59.2
105°	60.5	55.2	55.2	52.6	57.2
107.5°	53.2	55.9	47.3	55.9	52.6
110°	53.9	52.6	51.9	53.9	54.6



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CATALOG NUMBER: SSLED-LD5-12-W-UNV-L850-CD1-U-CLR22

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	55.2	50.6	54.6	50.6	55.2
115°	51.9	55.2	54.6	54.6	53.2
117.5°	53.9	55.2	56.5	57.2	53.9
120°	52.6	50.6	52.6	53.9	53.9
122.5°	47.3	46.7	47.3	48.6	51.3
125°	45.4	45.4	45.4	46.0	47.3
127.5°	46.0	46.0	45.4	46.0	46.7
130°	48.0	47.3	48.0	48.0	48.6
132.5°	48.6	48.0	46.7	48.0	50.0
135°	48.6	48.0	46.7	48.0	49.3
137.5°	49.3	48.6	48.6	48.6	50.0
140°	50.6	51.3	51.3	51.3	51.3
142.5°	53.2	53.2	53.2	53.2	54.6
145°	55.2	54.6	55.2	55.2	56.5
147.5°	57.2	56.5	57.2	57.2	57.8
150°	58.5	57.8	58.5	58.5	58.5
152.5°	59.2	58.5	59.2	59.2	59.2
155°	58.5	58.5	58.5	58.5	57.8
157.5°	57.2	57.2	57.2	57.2	56.5
160°	55.9	56.5	55.9	55.9	55.2
162.5°	53.9	53.9	53.9	53.2	53.2
165°	51.9	51.3	51.3	50.6	50.0
167.5°	49.3	48.6	48.0	48.0	47.3
170°	45.4	45.4	45.4	44.7	44.7
172.5°	41.4	40.8	40.8	40.8	40.1
175°	40.8	40.8	40.1	40.1	40.8
177.5°	40.8	40.8	41.4	40.8	40.8
180°	41.4	41.4	41.4	41.4	41.4

(END OF REPORT)