

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: P231478

Luminaire Tested: **SSLED-LD5-18-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: P231478
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-LD5-18-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: 18054.0 lumens
Efficiency: N/A
Efficacy: 134.9 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

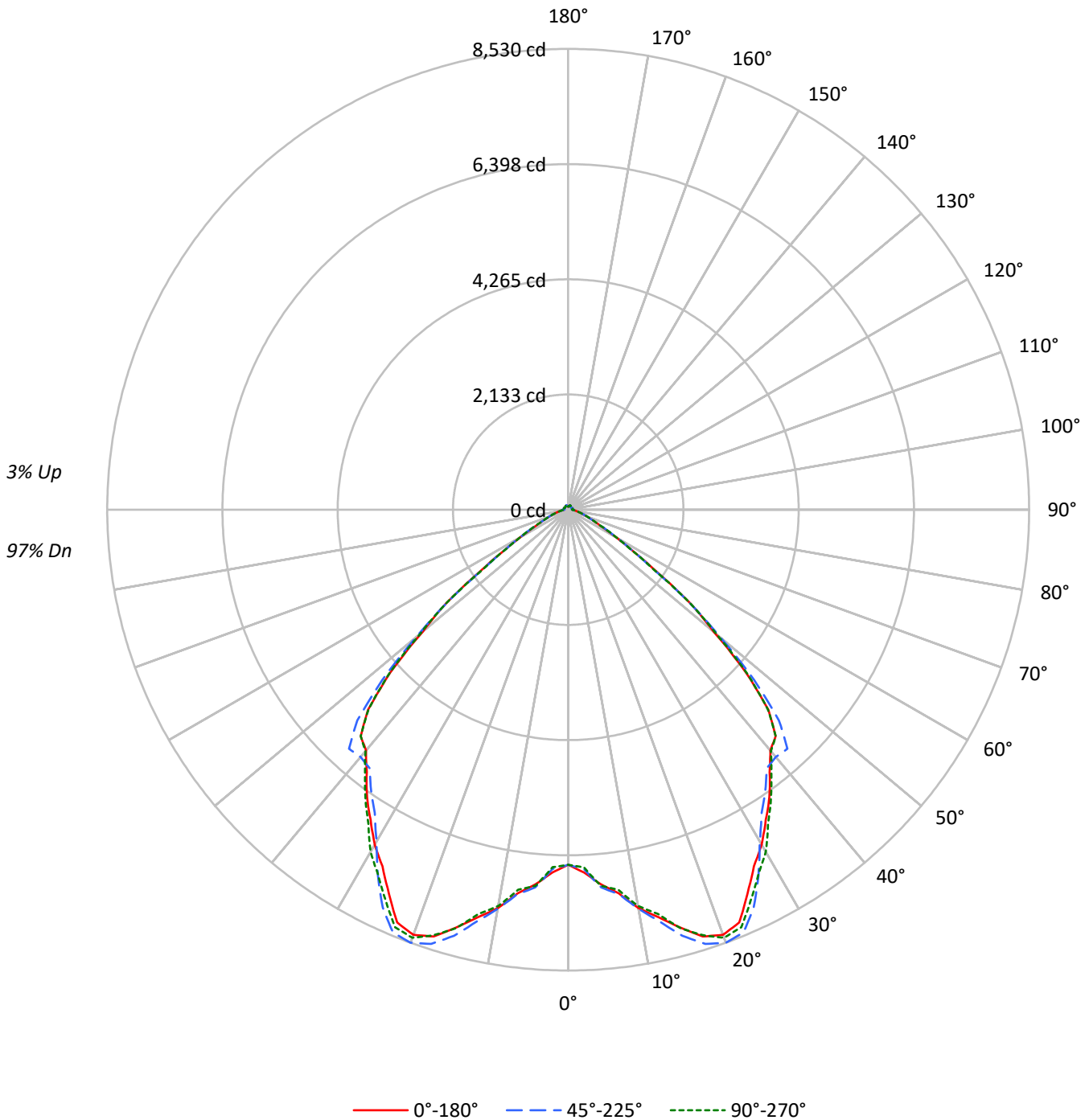
Input Watts (W): 133.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	26805	26805	26805
5°	26851	27084	26969
10°	27608	27671	27473
15°	28497	29053	28528
20°	29004	29544	29202
25°	26658	27605	27146
30°	24059	23824	24577
35°	21744	21298	21908
40°	19565	20102	19632
45°	17817	18771	17785
50°	12234	12753	12423
55°	7062	6823	6891
60°	3813	3881	3820
65°	2193	2286	2226
70°	1499	1539	1539
75°	1062	1079	1067
80°	792	801	787
85°	566	571	561



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.1	3.8
10°-20°	2299.2	12.7
20°-30°	3688.0	20.4
30°-40°	4055.3	22.5
40°-50°	3946.3	21.9
50°-60°	1892.1	10.5
60°-70°	618.7	3.4
70°-80°	269.7	1.5
80°-90°	124.6	0.7
90°-100°	84.8	0.5
100°-110°	86.1	0.5
110°-120°	77.9	0.4
120°-130°	62.1	0.3
130°-140°	54.8	0.3
140°-150°	50.3	0.3
150°-160°	39.1	0.2
160°-170°	21.2	0.1
170°-180°	5.8	0.0
0°-30°	6665.3	36.9
0°-40°	10720.6	59.4
0°-60°	16559.0	91.7
0°-90°	17571.9	97.3
90°-120°	248.9	1.4
90°-150°	416.0	2.3
90°-180°	482.0	2.7
0°-180°	18054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6574	6574	6574	6574	6574	
5°	6959	6954	7019	6992	6989	679
15°	8007	8096	8163	8068	8016	2278
25°	7844	8118	8123	8211	7988	3606
35°	6492	6353	6359	6416	6541	4053
45°	5236	5170	5516	5175	5226	3858
55°	1979	1988	1912	1971	1931	1885
65°	566	576	590	587	574	606
75°	242	244	246	244	243	267
85°	108	108	109	109	107	101
90°	76	78	78	78	77	42
95°	72	71	72	74	75	62
105°	88	80	80	77	83	87
115°	76	80	80	80	78	77
125°	66	66	66	67	69	62
135°	71	70	68	70	72	55
145°	80	80	80	80	82	50
155°	85	85	85	85	84	39
165°	76	75	75	74	73	21
175°	59	59	58	58	59	6
180°	60	60	60	60	60	



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CATALOG NUMBER: SSLED-LD5-18-W-UNV-L850-CD1-U-CLR22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6573.8	6573.8	6573.8	6573.8	6573.8
2.5°	6720.3	6685.9	6653.3	6629.4	6623.6
5°	6958.7	6953.9	7019.0	6992.2	6989.3
7.5°	7164.5	7177.0	7174.1	7139.6	7094.6
10°	7484.3	7487.1	7501.5	7482.3	7447.9
12.5°	7727.4	7837.5	7804.0	7769.5	7662.3
15°	8006.9	8096.0	8163.0	8068.2	8015.6
17.5°	8282.6	8377.4	8427.2	8403.3	8255.8
20°	8373.6	8521.0	8529.6	8552.6	8431.0
22.5°	8271.2	8439.6	8471.2	8515.3	8365.0
25°	7844.2	8118.0	8122.8	8210.8	7987.8
27.5°	7442.1	7672.8	7624.0	7787.7	7618.3
30°	7158.8	7199.0	7088.9	7295.7	7312.9
32.5°	6806.5	6706.9	6659.0	6756.7	6884.0
35°	6492.5	6352.7	6359.4	6415.9	6541.3
37.5°	6124.9	6222.5	6033.0	6301.0	6174.6
40°	5817.6	6006.2	5977.4	6052.1	5837.7
42.5°	5681.6	5663.4	6004.2	5674.9	5682.6
45°	5235.5	5169.5	5516.0	5175.2	5226.0
47.5°	4463.9	4679.3	4666.9	4743.5	4491.7
50°	3524.8	3745.0	3674.2	3836.9	3579.4
52.5°	2846.1	2751.3	2826.9	2781.0	2846.1
55°	1978.8	1988.3	1911.7	1971.1	1930.9
57.5°	1403.4	1435.0	1407.2	1405.3	1391.0
60°	1030.1	1033.9	1048.3	1045.4	1032.0
62.5°	753.4	761.1	777.3	776.4	767.8
65°	565.8	576.3	589.7	586.8	574.4
67.5°	441.3	452.8	455.7	457.6	459.5
70°	365.7	369.5	375.3	375.3	375.3
72.5°	304.4	309.2	310.2	311.1	309.2
75°	242.2	244.1	246.0	244.1	243.2
77.5°	200.1	200.1	199.1	198.2	199.1
80°	166.6	167.5	168.5	166.6	165.6
82.5°	135.9	136.9	137.9	136.9	136.9
85°	108.2	108.2	109.1	109.1	107.2
87.5°	89.0	89.0	89.0	90.0	89.0
90°	75.6	77.5	77.5	78.5	76.6
92.5°	68.0	69.9	69.9	71.8	69.9
95°	71.8	70.8	71.8	73.7	74.7
97.5°	80.4	82.3	85.2	88.1	85.2
100°	84.2	90.9	92.9	92.9	87.1
102.5°	82.3	81.4	85.2	83.3	86.2
105°	88.1	80.4	80.4	76.6	83.3
107.5°	77.5	81.4	68.9	81.4	76.6
110°	78.5	76.6	75.6	78.5	79.5



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CATALOG NUMBER: SSLED-LD5-18-W-UNV-L850-CD1-U-CLR22

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.4	73.7	79.5	73.7	80.4
115°	75.6	80.4	79.5	79.5	77.5
117.5°	78.5	80.4	82.3	83.3	78.5
120°	76.6	73.7	76.6	78.5	78.5
122.5°	68.9	68.0	68.9	70.8	74.7
125°	66.1	66.1	66.1	67.0	68.9
127.5°	67.0	67.0	66.1	67.0	68.0
130°	69.9	68.9	69.9	69.9	70.8
132.5°	70.8	69.9	68.0	69.9	72.8
135°	70.8	69.9	68.0	69.9	71.8
137.5°	71.8	70.8	70.8	70.8	72.8
140°	73.7	74.7	74.7	74.7	74.7
142.5°	77.5	77.5	77.5	77.5	79.5
145°	80.4	79.5	80.4	80.4	82.3
147.5°	83.3	82.3	83.3	83.3	84.2
150°	85.2	84.2	85.2	85.2	85.2
152.5°	86.2	85.2	86.2	86.2	86.2
155°	85.2	85.2	85.2	85.2	84.2
157.5°	83.3	83.3	83.3	83.3	82.3
160°	81.4	82.3	81.4	81.4	80.4
162.5°	78.5	78.5	78.5	77.5	77.5
165°	75.6	74.7	74.7	73.7	72.8
167.5°	71.8	70.8	69.9	69.9	68.9
170°	66.1	66.1	66.1	65.1	65.1
172.5°	60.3	59.4	59.4	59.4	58.4
175°	59.4	59.4	58.4	58.4	59.4
177.5°	59.4	59.4	60.3	59.4	59.4
180°	60.3	60.3	60.3	60.3	60.3

(END OF REPORT)