

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: P219383

Luminaire Tested: **SSLED-LD5-18-M-UNV-L850-CD1-UPL-U**

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: P219383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27259)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSLED-LD5-18-M-UNV-L850-CD1-UPL-U
Description: METALUX ROUND HIGH BAY STEELER LED WITH MEDIUM DISTRIBUTION LENS WITH Rev.G BOARD. LENS DIFFUSE 2407, 7.5% BLEND. UPLIGHT REFLECTOR ACCESSORY INSTALLED. FIXTURE CENTERED TO LEDS
Light Source: (240) 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16486.7 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.18
Luminous Opening: Circular (Dia: 1.41' x H: 0')
CIE Type: Direct

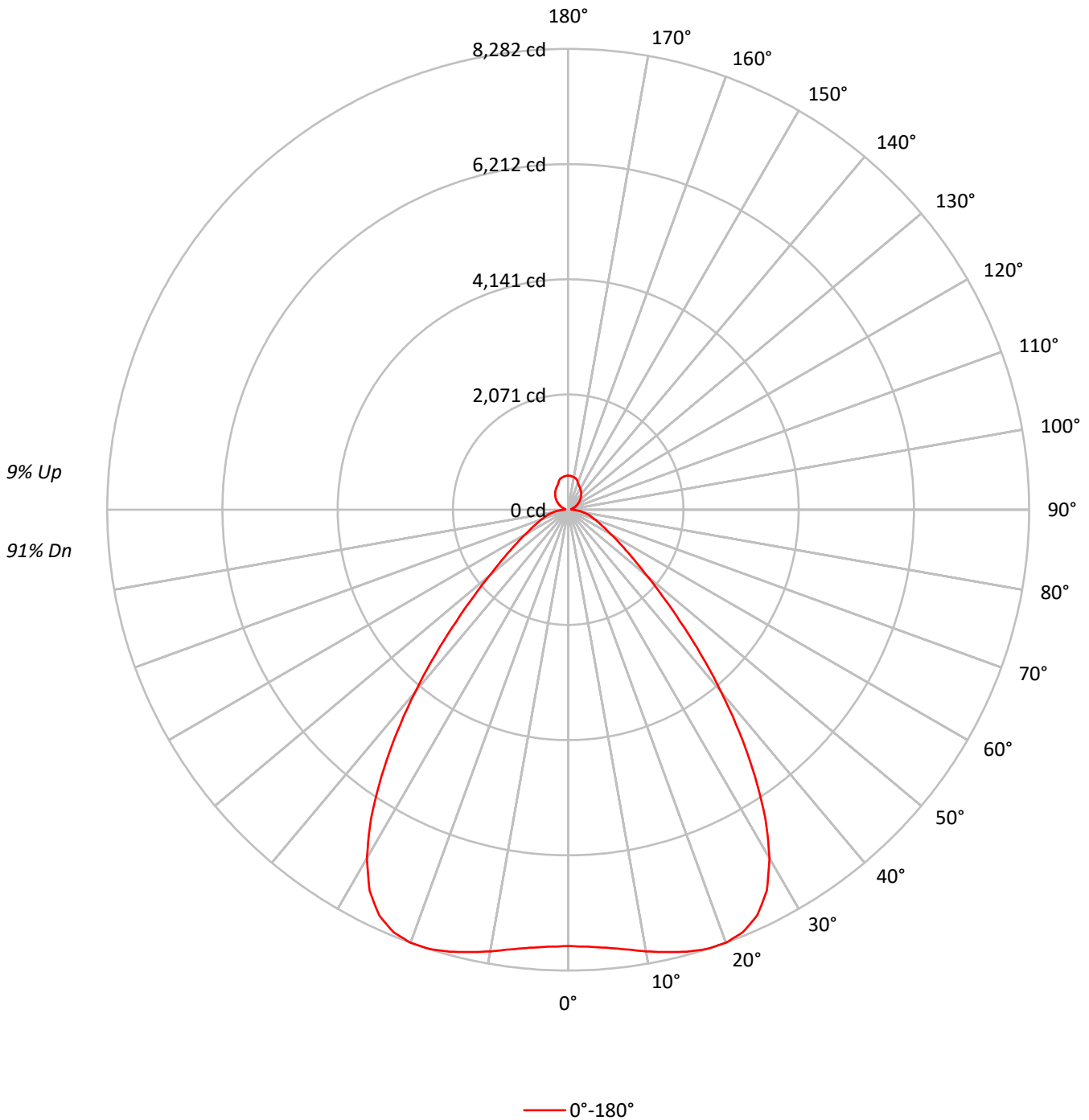
Input Watts (W): 133.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	109	105	102	99	105	102	99	96	96	94	92	91	89	87	86	85	83	81
2	101	95	89	85	98	92	87	83	87	83	80	83	80	77	79	76	74	72
3	94	86	79	74	91	83	77	73	79	74	70	76	71	68	72	69	66	64
4	88	78	70	65	85	76	69	64	72	67	62	69	64	61	66	62	59	57
5	82	71	63	58	79	69	62	57	66	60	56	64	58	54	61	57	53	51
6	76	65	57	52	74	64	56	51	61	55	50	59	53	49	56	52	48	46
7	71	60	52	47	69	58	51	46	56	50	46	54	49	45	52	47	44	42
8	67	55	48	43	65	54	47	42	52	46	41	50	45	41	49	44	40	38
9	63	51	44	39	61	50	43	39	48	42	38	47	41	37	45	40	37	35
10	59	47	40	36	57	47	40	35	45	39	35	44	38	34	42	37	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	54050
5°	54671
10°	56422
15°	58687
20°	60753
25°	61157
30°	57581
35°	49195
40°	38496
45°	27769
50°	19788
55°	15113
60°	12360
65°	10863
70°	10189
75°	10497
80°	11223
85°	12094



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.3	4.6
10°-20°	2328.9	14.1
20°-30°	3658.2	22.2
30°-40°	3615.8	21.9
40°-50°	2244.7	13.6
50°-60°	1159.3	7.0
60°-70°	671.3	4.1
70°-80°	415.7	2.5
80°-90°	183.3	1.1
90°-100°	65.7	0.4
100°-110°	86.1	0.5
110°-120°	152.9	0.9
120°-130°	212.6	1.3
130°-140°	249.2	1.5
140°-150°	251.1	1.5
150°-160°	216.8	1.3
160°-170°	158.3	1.0
170°-180°	57.4	0.3
0°-30°	6746.4	40.9
0°-40°	10362.2	62.9
0°-60°	13766.3	83.5
0°-90°	15036.6	91.2
90°-120°	304.7	1.8
90°-150°	1017.5	6.2
90°-180°	1450.0	8.8
0°-180°	16486.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7841	
5°	7901	759
15°	8223	2329
25°	8040	3658
35°	5846	3616
45°	2848	2245
55°	1258	1159
65°	666	671
75°	394	416
85°	153	157
90°	81	45
95°	56	47
105°	78	86
115°	155	153
125°	237	213
135°	323	249
145°	402	251
155°	469	217
165°	571	158
175°	608	57
180°	612	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7840.7
2.5°	7860.7
5°	7900.6
7.5°	7969.0
10°	8060.4
12.5°	8142.6
15°	8223.2
17.5°	8277.8
20°	8281.6
22.5°	8213.3
25°	8040.4
27.5°	7721.6
30°	7233.8
32.5°	6594.7
35°	5845.8
37.5°	5060.7
40°	4277.9
42.5°	3528.2
45°	2848.4
47.5°	2289.9
50°	1845.1
52.5°	1515.6
55°	1257.5
57.5°	1060.8
60°	896.5
62.5°	768.2
65°	666.0
67.5°	580.0
70°	505.5
72.5°	447.1
75°	394.1
77.5°	339.5
80°	282.7
82.5°	224.3
85°	152.9
87.5°	113.7
90°	81.4
92.5°	53.0
95°	56.1
97.5°	59.1
100°	63.8
102.5°	69.9
105°	77.6
107.5°	90.6
110°	112.2



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	134.4
115°	155.2
117.5°	175.1
120°	195.1
122.5°	216.6
125°	237.4
127.5°	258.9
130°	281.1
132.5°	302.7
135°	323.4
137.5°	343.4
140°	363.3
142.5°	383.3
145°	401.8
147.5°	419.4
150°	436.3
152.5°	451.7
155°	468.6
157.5°	487.8
160°	512.4
162.5°	545.4
165°	570.7
167.5°	582.3
170°	590.7
172.5°	599.9
175°	607.6
177.5°	610.7
180°	611.5

(END OF REPORT)