

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: P219310

Luminaire Tested: **SSLED-LD5-9-N-UNV-L840-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: P219310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27258)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSLED-LD5-9-N-UNV-L840-CD1-UPL-U
Description: METALUX ROUND HIGH BAY STEELER LED WITH NARROW DISTRIBUTION LENS WITH Rev.G BOARD. LENS DIFFUSE 2407, 7.5% BLEND.
UPLIGHT REFLECTOR ACCESSORY INSTALLED. FIXTURE CENTERED TO LEDS
Light Source: (240) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8022.8 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.84
Luminous Opening: Circular (Dia: 1.41' x H: 0')
CIE Type: Direct

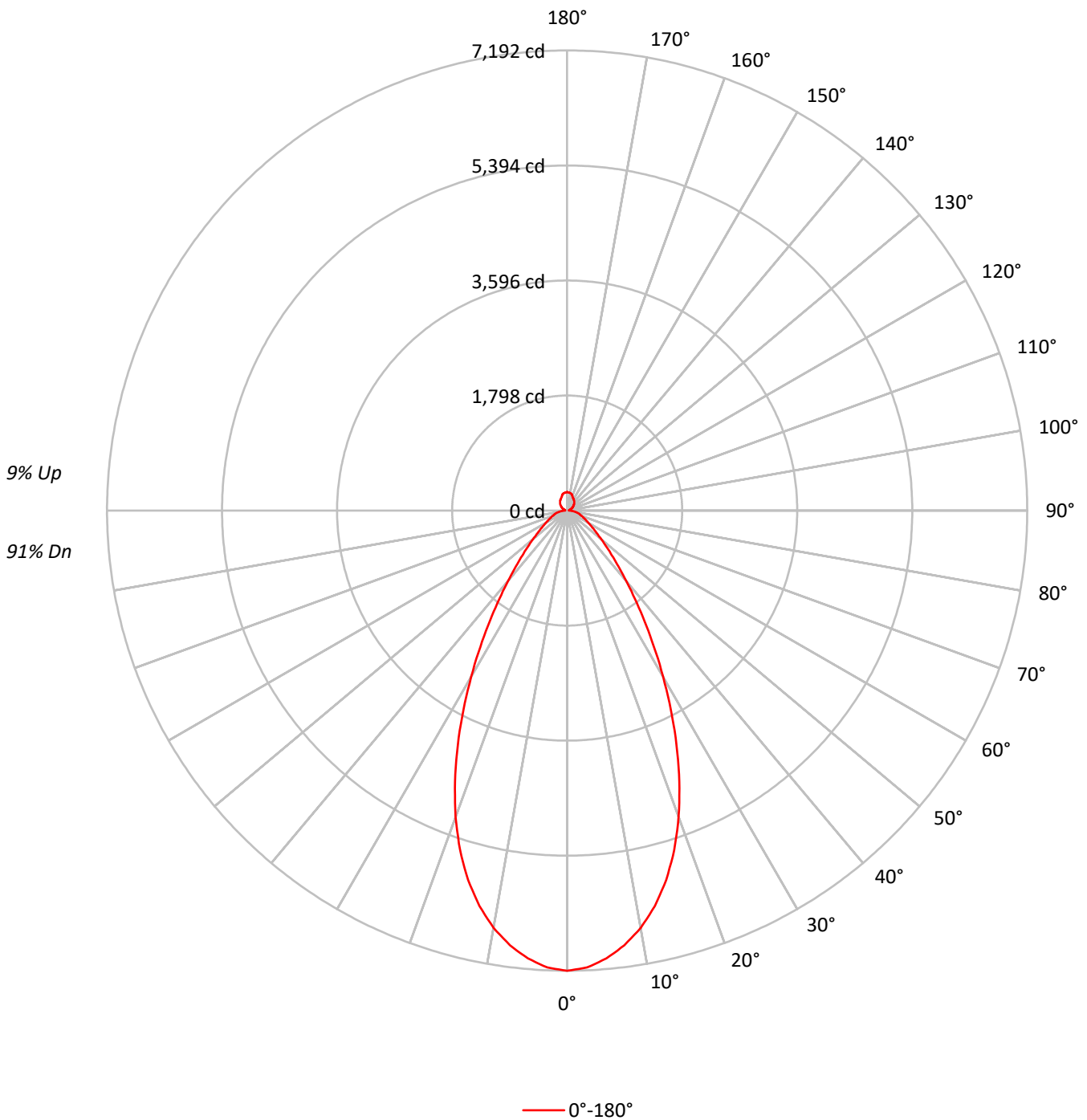
Input Watts (W): 64.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	103	100	106	103	100	97	97	95	93	92	90	88	87	86	84	82
2	102	96	91	87	99	94	89	85	89	85	82	85	82	79	80	78	76	74
3	96	88	82	77	93	86	80	76	82	77	73	78	74	71	75	72	69	67
4	90	81	74	69	87	79	73	68	76	70	66	72	68	64	69	66	63	61
5	84	74	67	62	82	73	66	62	70	65	60	67	63	59	65	61	58	56
6	79	69	62	57	77	68	61	56	65	60	55	63	58	54	61	56	53	51
7	75	64	57	52	73	63	57	52	61	55	51	59	54	50	57	53	49	48
8	71	60	53	48	69	59	53	48	57	51	47	55	50	47	54	49	46	44
9	67	56	49	45	65	55	49	45	54	48	44	52	47	43	51	46	43	41
10	64	53	46	42	62	52	46	42	51	45	41	49	44	41	48	43	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49580
5°	48620
10°	46360
15°	42663
20°	37382
25°	30759
30°	23849
35°	17685
40°	12880
45°	9621
50°	7430
55°	6078
60°	5308
65°	4890
70°	4799
75°	5127
80°	5649
85°	6367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.0	8.2
10°-20°	1659.7	20.7
20°-30°	1843.5	23.0
30°-40°	1327.5	16.5
40°-50°	778.1	9.7
50°-60°	462.1	5.8
60°-70°	301.1	3.8
70°-80°	202.3	2.5
80°-90°	95.3	1.2
90°-100°	33.7	0.4
100°-110°	42.0	0.5
110°-120°	76.3	1.0
120°-130°	103.5	1.3
130°-140°	119.5	1.5
140°-150°	118.3	1.5
150°-160°	101.1	1.3
160°-170°	74.0	0.9
170°-180°	26.9	0.3
0°-30°	4161.2	51.9
0°-40°	5488.7	68.4
0°-60°	6728.9	83.9
0°-90°	7327.6	91.3
90°-120°	152.0	1.9
90°-150°	493.2	6.1
90°-180°	695.0	8.7
0°-180°	8022.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7192	
5°	7026	658
15°	5978	1660
25°	4044	1843
35°	2102	1328
45°	987	778
55°	506	462
65°	300	301
75°	192	202
85°	80	81
90°	44	24
95°	28	24
105°	38	42
115°	78	76
125°	115	103
135°	155	119
145°	189	118
155°	218	101
165°	267	74
175°	285	27
180°	288	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7192.3
2.5°	7147.8
5°	7026.2
7.5°	6851.8
10°	6622.9
12.5°	6328.8
15°	5978.0
17.5°	5565.0
20°	5095.7
22.5°	4581.5
25°	4044.0
27.5°	3507.6
30°	2996.1
32.5°	2524.8
35°	2101.5
37.5°	1735.4
40°	1431.3
42.5°	1184.8
45°	986.9
47.5°	825.1
50°	692.8
52.5°	587.8
55°	505.7
57.5°	439.4
60°	385.0
62.5°	338.9
65°	299.8
67.5°	266.9
70°	238.1
72.5°	214.7
75°	192.5
77.5°	168.7
80°	142.3
82.5°	115.4
85°	80.5
87.5°	61.0
90°	43.7
92.5°	28.0
95°	28.4
97.5°	29.5
100°	31.4
102.5°	33.7
105°	37.6
107.5°	44.5
110°	55.2



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	67.5
115°	77.8
117.5°	87.4
120°	96.6
122.5°	105.8
125°	115.4
127.5°	125.4
130°	136.1
132.5°	145.7
135°	154.9
137.5°	164.1
140°	172.9
142.5°	181.4
145°	189.0
147.5°	196.7
150°	203.6
152.5°	210.5
155°	218.2
157.5°	227.4
160°	239.3
162.5°	254.6
165°	266.9
167.5°	272.2
170°	276.8
172.5°	281.0
175°	284.9
177.5°	286.8
180°	288.0

(END OF REPORT)