

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: P219386

Luminaire Tested: **SSLED-LD5-24-M-UNV-L850-CD2-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: P219386
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-LD5-24-M-UNV-L850-CD2-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: 22091.4 lumens
Efficiency: N/A
Efficacy: 115.9 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

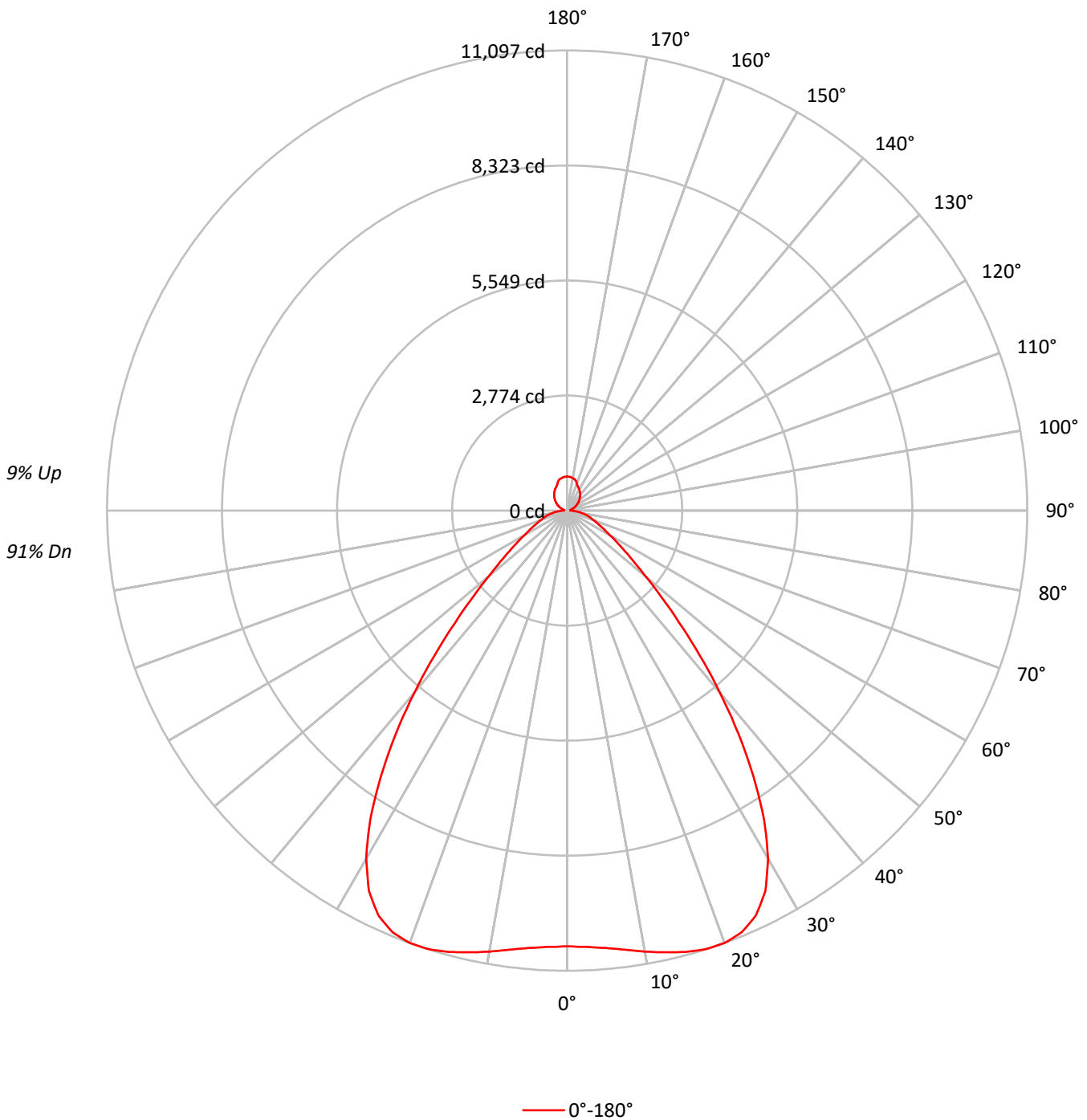
Input Watts (W): 190.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	72425
5°	73257
10°	75602
15°	78638
20°	81407
25°	81947
30°	77156
35°	65918
40°	51583
45°	37209
50°	26515
55°	20251
60°	16561
65°	14556
70°	13651
75°	14063
80°	15038
85°	16199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1017.4	4.6
10°-20°	3120.7	14.1
20°-30°	4901.8	22.2
30°-40°	4845.0	21.9
40°-50°	3007.9	13.6
50°-60°	1553.5	7.0
60°-70°	899.5	4.1
70°-80°	556.9	2.5
80°-90°	245.6	1.1
90°-100°	88.0	0.4
100°-110°	115.4	0.5
110°-120°	204.9	0.9
120°-130°	284.8	1.3
130°-140°	333.9	1.5
140°-150°	336.4	1.5
150°-160°	290.5	1.3
160°-170°	212.2	1.0
170°-180°	76.9	0.3
0°-30°	9039.9	40.9
0°-40°	13884.9	62.9
0°-60°	18446.2	83.5
0°-90°	20148.3	91.2
90°-120°	408.3	1.8
90°-150°	1363.5	6.2
90°-180°	1943.0	8.8
0°-180°	22091.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10506	
5°	10586	###
15°	11019	3121
25°	10774	4902
35°	7833	4845
45°	3817	3008
55°	1685	1553
65°	892	900
75°	528	557
85°	205	210
90°	109	61
95°	75	63
105°	104	115
115°	208	205
125°	318	285
135°	433	334
145°	538	336
155°	628	291
165°	765	212
175°	814	77
180°	819	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10506.2
2.5°	10532.9
5°	10586.4
7.5°	10678.1
10°	10800.5
12.5°	10910.7
15°	11018.8
17.5°	11091.8
20°	11097.0
22.5°	11005.4
25°	10773.8
27.5°	10346.6
30°	9693.0
32.5°	8836.6
35°	7833.0
37.5°	6781.1
40°	5732.2
42.5°	4727.6
45°	3816.7
47.5°	3068.4
50°	2472.4
52.5°	2030.8
55°	1685.0
57.5°	1421.5
60°	1201.2
62.5°	1029.3
65°	892.4
67.5°	777.1
70°	677.3
72.5°	599.1
75°	528.0
77.5°	455.0
80°	378.8
82.5°	300.6
85°	204.8
87.5°	152.3
90°	109.1
92.5°	71.0
95°	75.1
97.5°	79.3
100°	85.4
102.5°	93.7
105°	104.0
107.5°	121.5
110°	150.3



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	180.1
115°	207.9
117.5°	234.7
120°	261.4
122.5°	290.3
125°	318.1
127.5°	346.9
130°	376.7
132.5°	405.5
135°	433.3
137.5°	460.1
140°	486.9
142.5°	513.6
145°	538.3
147.5°	562.0
150°	584.6
152.5°	605.2
155°	627.9
157.5°	653.6
160°	686.5
162.5°	730.8
165°	764.8
167.5°	780.2
170°	791.5
172.5°	803.9
175°	814.2
177.5°	818.3
180°	819.3

(END OF REPORT)