

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: P219385

Luminaire Tested: **SSLED-LD5-24-M-UNV-L840-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: P219385  
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-L840-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) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21414.1 lumens  
Efficiency: N/A  
Efficacy: 112.4 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

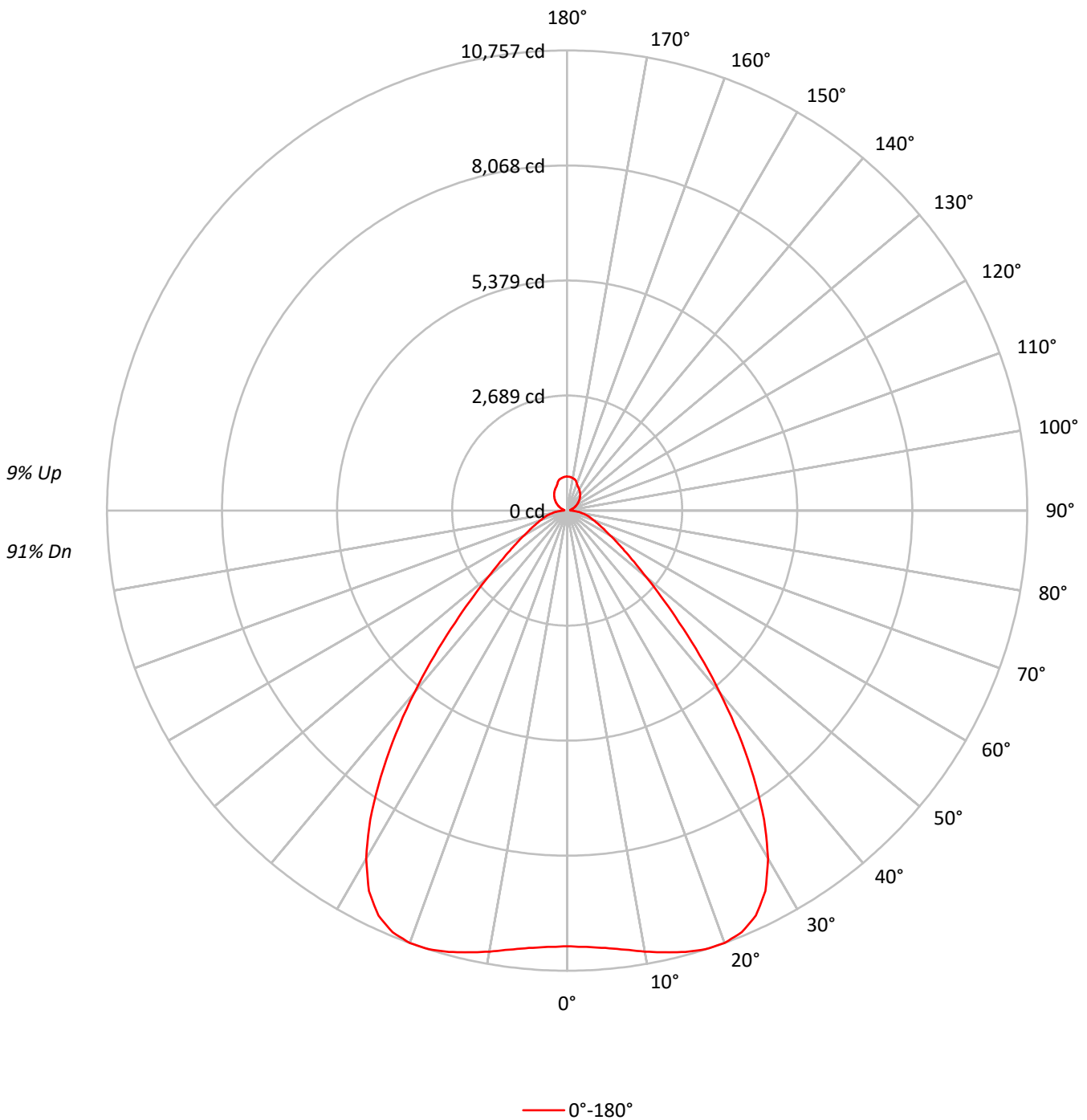
Input Watts (W): 190.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	70204
5°	71011
10°	73285
15°	76227
20°	78911
25°	79435
30°	74790
35°	63898
40°	50002
45°	36068
50°	25702
55°	19630
60°	16054
65°	14111
70°	13232
75°	13632
80°	14577
85°	15708



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	986.2	4.6
10°-20°	3025.0	14.1
20°-30°	4751.6	22.2
30°-40°	4696.5	21.9
40°-50°	2915.7	13.6
50°-60°	1505.9	7.0
60°-70°	872.0	4.1
70°-80°	539.8	2.5
80°-90°	238.1	1.1
90°-100°	85.3	0.4
100°-110°	111.8	0.5
110°-120°	198.6	0.9
120°-130°	276.1	1.3
130°-140°	323.7	1.5
140°-150°	326.1	1.5
150°-160°	281.6	1.3
160°-170°	205.7	1.0
170°-180°	74.6	0.3
0°-30°	8762.8	40.9
0°-40°	13459.2	62.9
0°-60°	17880.7	83.5
0°-90°	19530.6	91.2
90°-120°	395.7	1.8
90°-150°	1321.6	6.2
90°-180°	1883.0	8.8
0°-180°	21414.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10184	
5°	10262	986
15°	10681	3025
25°	10444	4752
35°	7593	4696
45°	3700	2916
55°	1633	1506
65°	865	872
75°	512	540
85°	199	203
90°	106	59
95°	73	61
105°	101	112
115°	202	199
125°	308	276
135°	420	324
145°	522	326
155°	609	282
165°	741	206
175°	789	75
180°	794	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10184.1
2.5°	10210.0
5°	10261.9
7.5°	10350.7
10°	10469.4
12.5°	10576.2
15°	10681.0
17.5°	10751.8
20°	10756.8
22.5°	10668.0
25°	10443.5
27.5°	10029.4
30°	9395.8
32.5°	8565.7
35°	7592.9
37.5°	6573.2
40°	5556.5
42.5°	4582.7
45°	3699.7
47.5°	2974.3
50°	2396.6
52.5°	1968.6
55°	1633.3
57.5°	1377.9
60°	1164.4
62.5°	997.8
65°	865.1
67.5°	753.3
70°	656.5
72.5°	580.7
75°	511.8
77.5°	441.0
80°	367.2
82.5°	291.3
85°	198.6
87.5°	147.7
90°	105.8
92.5°	68.8
95°	72.8
97.5°	76.8
100°	82.8
102.5°	90.8
105°	100.8
107.5°	117.7
110°	145.7



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	174.6
115°	201.5
117.5°	227.5
120°	253.4
122.5°	281.4
125°	308.3
127.5°	336.2
130°	365.2
132.5°	393.1
135°	420.1
137.5°	446.0
140°	471.9
142.5°	497.9
145°	521.8
147.5°	544.8
150°	566.7
152.5°	586.7
155°	608.6
157.5°	633.6
160°	665.5
162.5°	708.4
165°	741.3
167.5°	756.3
170°	767.3
172.5°	779.2
175°	789.2
177.5°	793.2
180°	794.2

(END OF REPORT)