

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: P219449

Luminaire Tested: **SSLED-LD5-24-W-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: P219449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27260)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: SSLED-LD5-24-W-UNV-L850-CD2-UPL-U  
Description: METALUX ROUND HIGH BAY STEELER LED WITH WIDE 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: 22213.9 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Spacing Criteria (0/90/45): 1.87 / 1.87 / 1.66  
Luminous Opening: Circular (Dia: 1.41' x H: 0')  
CIE Type: Direct

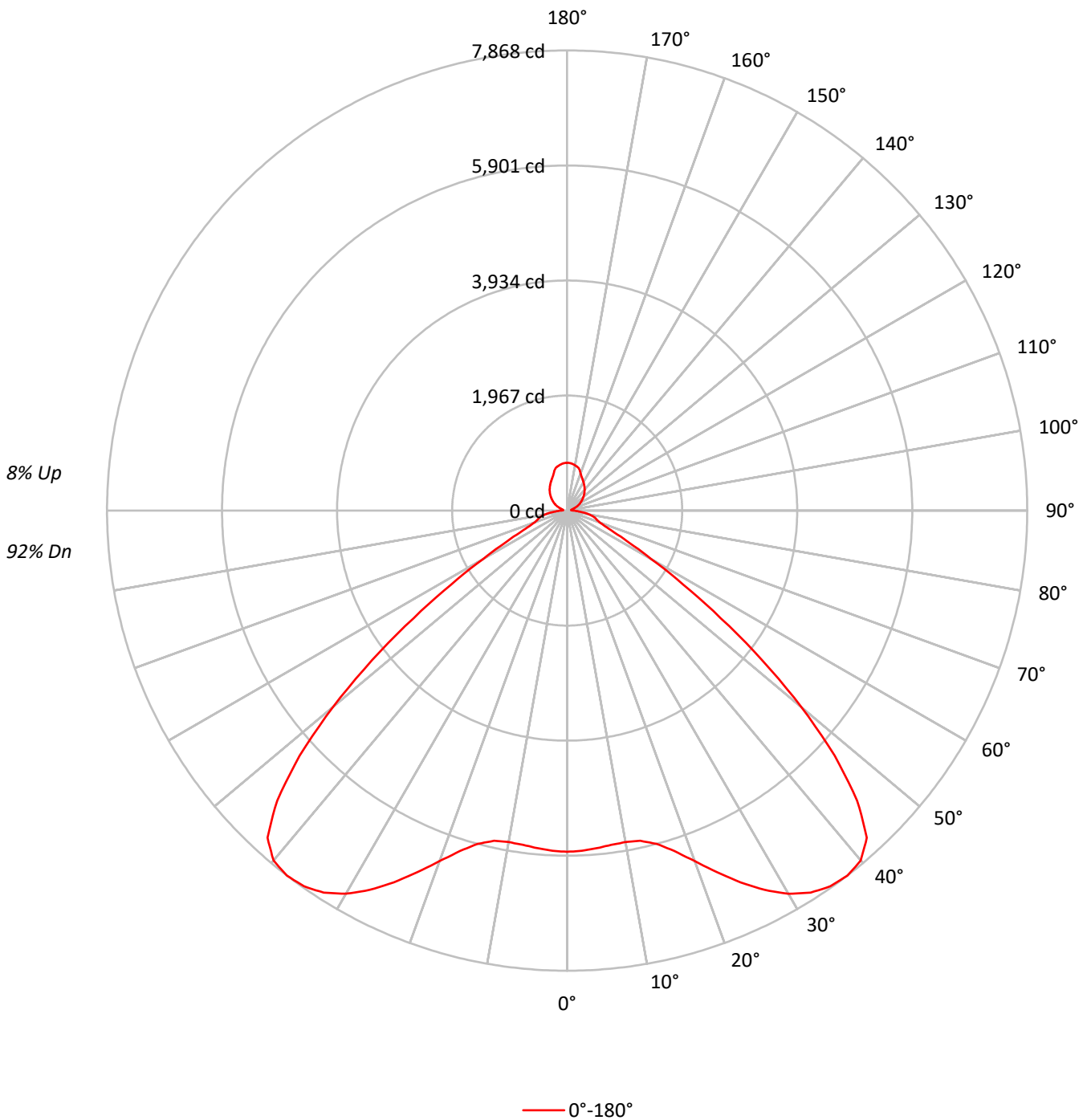
Input Watts (W): 190.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	92
1	108	104	100	97	105	101	98	95	95	93	90	90	88	86	85	84	82	80
2	100	92	86	81	96	90	84	80	85	80	77	81	77	74	76	73	71	68
3	91	82	75	69	88	80	73	68	76	70	65	72	67	63	68	65	61	59
4	84	73	65	59	81	71	64	58	68	61	56	64	59	55	61	57	53	51
5	77	65	57	51	75	64	56	50	61	54	49	58	52	48	55	50	46	44
6	71	59	50	44	69	57	50	44	55	48	43	52	46	42	50	45	41	39
7	66	53	45	39	64	52	44	39	50	43	38	48	41	37	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	43	37	33	42	36	32	30
9	57	44	36	31	55	43	36	30	41	35	30	40	34	29	38	33	29	27
10	53	40	33	28	51	39	32	27	38	31	27	36	30	26	35	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	40204
5°	40094
10°	40276
15°	42084
20°	46778
25°	53331
30°	60220
35°	66005
40°	70285
45°	68376
50°	56132
55°	38535
60°	22933
65°	14607
70°	11950
75°	13296
80°	15117
85°	16768



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	551.7	2.5
10°-20°	1699.0	7.6
20°-30°	3254.6	14.7
30°-40°	4894.1	22.0
40°-50°	5262.2	23.7
50°-60°	2932.2	13.2
60°-70°	967.3	4.4
70°-80°	521.7	2.3
80°-90°	251.2	1.1
90°-100°	83.7	0.4
100°-110°	109.0	0.5
110°-120°	202.1	0.9
120°-130°	277.0	1.2
130°-140°	320.1	1.4
140°-150°	320.7	1.4
150°-160°	281.4	1.3
160°-170°	209.4	0.9
170°-180°	76.5	0.3
0°-30°	5505.3	24.8
0°-40°	10399.4	46.8
0°-60°	18593.8	83.7
0°-90°	20334.0	91.5
90°-120°	394.9	1.8
90°-150°	1312.7	5.9
90°-180°	1880.0	8.5
0°-180°	22213.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5832	
5°	5794	552
15°	5897	1699
25°	7012	3255
35°	7843	4894
45°	7014	5262
55°	3206	2932
65°	896	967
75°	499	522
85°	212	215
90°	111	62
95°	70	59
105°	99	109
115°	207	202
125°	310	277
135°	416	320
145°	513	321
155°	608	281
165°	756	209
175°	810	76
180°	816	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5832.1
2.5°	5822.8
5°	5794.0
7.5°	5765.1
10°	5753.8
12.5°	5782.6
15°	5896.9
17.5°	6101.7
20°	6376.6
22.5°	6690.5
25°	7011.6
27.5°	7311.2
30°	7565.4
32.5°	7744.5
35°	7843.3
37.5°	7868.0
40°	7810.4
42.5°	7583.9
45°	7013.7
47.5°	6203.6
50°	5234.0
52.5°	4202.7
55°	3206.3
57.5°	2354.0
60°	1663.4
62.5°	1200.2
65°	895.5
67.5°	701.0
70°	592.9
72.5°	537.3
75°	499.2
77.5°	451.9
80°	380.8
82.5°	307.8
85°	212.0
87.5°	156.5
90°	111.2
92.5°	70.0
95°	70.0
97.5°	72.1
100°	78.2
102.5°	86.5
105°	98.8
107.5°	116.3
110°	145.1



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	178.1
115°	206.9
117.5°	231.6
120°	256.3
122.5°	284.1
125°	309.8
127.5°	335.6
130°	362.3
132.5°	389.1
135°	415.8
137.5°	440.5
140°	465.2
142.5°	488.9
145°	512.6
147.5°	535.2
150°	559.9
152.5°	583.6
155°	608.3
157.5°	636.1
160°	673.2
162.5°	720.5
165°	755.5
167.5°	772.0
170°	784.3
172.5°	798.7
175°	810.1
177.5°	815.2
180°	816.2

(END OF REPORT)