

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: P219326

Luminaire Tested: **SSLED-LD5-30-N-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: P219326  
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-LD5-30-N-UNV-L850-CD2-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) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27253.2 lumens  
Efficiency: N/A  
Efficacy: 102.3 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

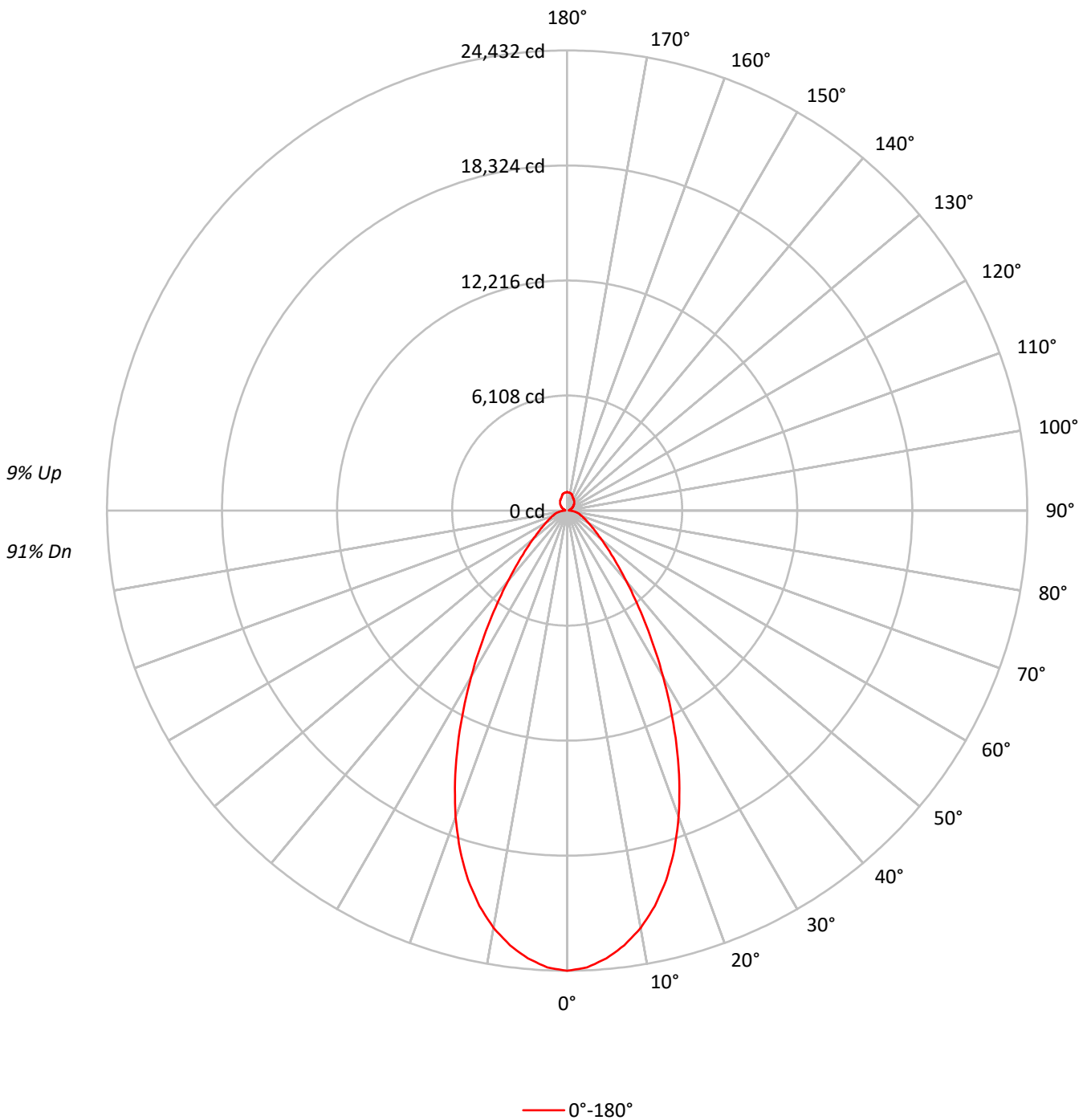
Input Watts (W): 266.35  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	168422
5°	165163
10°	157481
15°	144925
20°	126985
25°	104488
30°	81013
35°	60077
40°	43753
45°	32684
50°	25241
55°	20648
60°	18029
65°	16613
70°	16302
75°	17414
80°	19182
85°	21632



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2235.2	8.2
10°-20°	5638.0	20.7
20°-30°	6262.2	23.0
30°-40°	4509.6	16.5
40°-50°	2643.2	9.7
50°-60°	1569.7	5.8
60°-70°	1022.9	3.8
70°-80°	687.0	2.5
80°-90°	323.7	1.2
90°-100°	114.4	0.4
100°-110°	142.6	0.5
110°-120°	259.3	1.0
120°-130°	351.6	1.3
130°-140°	405.9	1.5
140°-150°	401.7	1.5
150°-160°	343.3	1.3
160°-170°	251.4	0.9
170°-180°	91.4	0.3
0°-30°	14135.3	51.9
0°-40°	18644.9	68.4
0°-60°	22857.8	83.9
0°-90°	24891.4	91.3
90°-120°	516.4	1.9
90°-150°	1675.6	6.1
90°-180°	2362.0	8.7
0°-180°	27253.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	24432	
5°	23868	###
15°	20307	5638
25°	13737	6262
35°	7139	4510
45°	3353	2643
55°	1718	1570
65°	1018	1023
75°	654	687
85°	274	275
90°	148	82
95°	96	81
105°	128	143
115°	264	259
125°	392	352
135°	526	406
145°	642	402
155°	741	343
165°	906	251
175°	968	91
180°	978	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	24431.8
2.5°	24280.7
5°	23867.9
7.5°	23275.2
10°	22497.7
12.5°	21498.7
15°	20306.9
17.5°	18904.1
20°	17309.9
22.5°	15563.3
25°	13737.2
27.5°	11915.0
30°	10177.5
32.5°	8576.8
35°	7138.9
37.5°	5895.0
40°	4862.1
42.5°	4024.6
45°	3352.6
47.5°	2802.9
50°	2353.6
52.5°	1996.7
55°	1718.0
57.5°	1492.6
60°	1307.7
62.5°	1151.4
65°	1018.5
67.5°	906.5
70°	808.8
72.5°	729.4
75°	653.8
77.5°	573.1
80°	483.2
82.5°	392.0
85°	273.5
87.5°	207.1
90°	148.5
92.5°	95.1
95°	96.4
97.5°	100.3
100°	106.8
102.5°	114.6
105°	127.6
107.5°	151.1
110°	187.6



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	229.2
115°	264.4
117.5°	297.0
120°	328.2
122.5°	359.5
125°	392.0
127.5°	425.9
130°	462.4
132.5°	494.9
135°	526.2
137.5°	557.5
140°	587.4
142.5°	616.1
145°	642.1
147.5°	668.2
150°	691.6
152.5°	715.1
155°	741.1
157.5°	772.4
160°	812.7
162.5°	864.8
165°	906.5
167.5°	924.8
170°	940.4
172.5°	954.7
175°	967.7
177.5°	974.3
180°	978.2

(END OF REPORT)