

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: P219455

Luminaire Tested: **SSLED-LD5-36-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: P219455  
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-LD5-36-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: 32796.6 lumens  
Efficiency: N/A  
Efficacy: 98.3 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

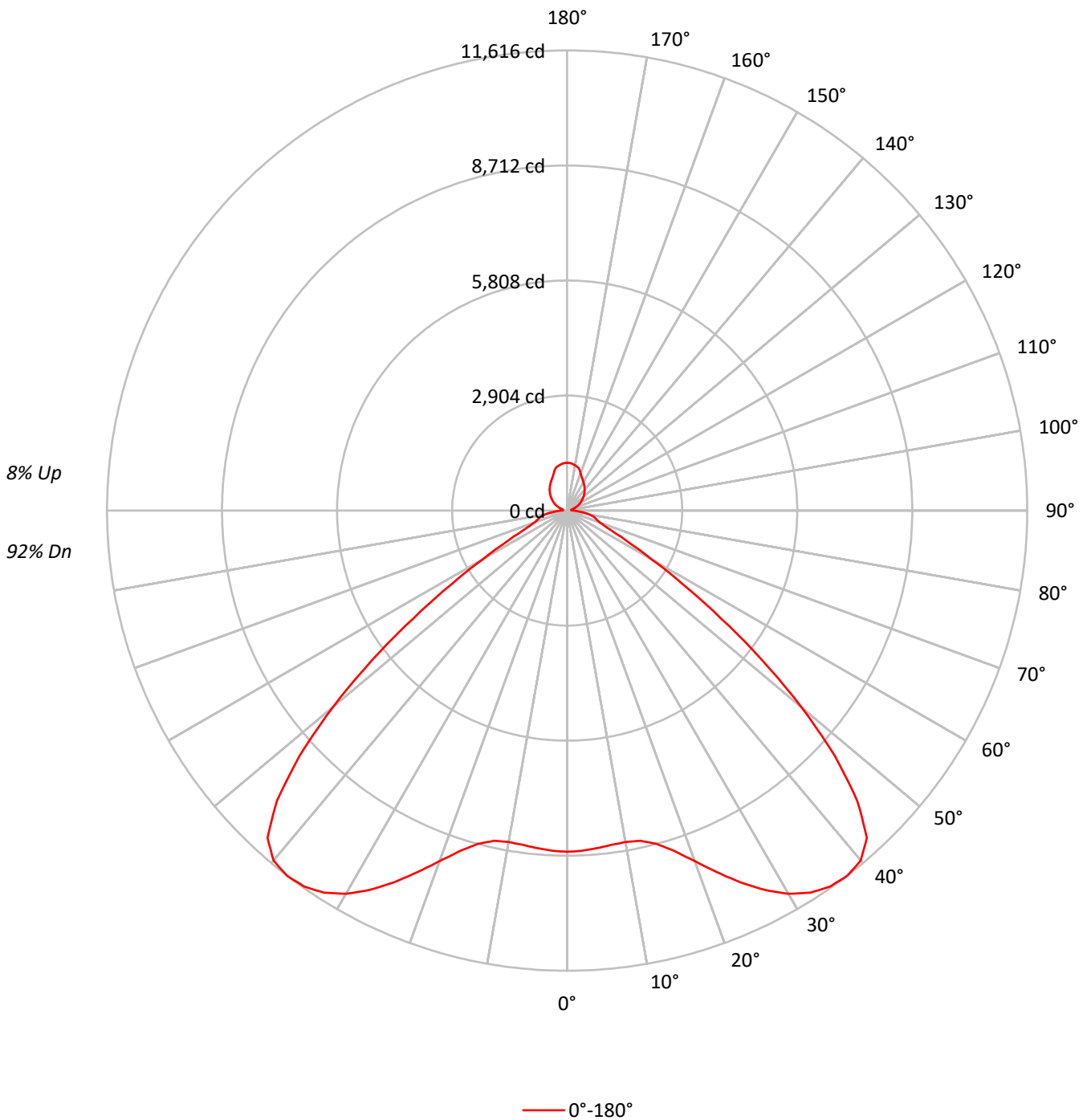
Input Watts (W): 333.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	59357
5°	59194
10°	59464
15°	62134
20°	69064
25°	78739
30°	88910
35°	97450
40°	103769
45°	100950
50°	82873
55°	56893
60°	33858
65°	21565
70°	17642
75°	19630
80°	22322
85°	24764



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	814.5	2.5
10°-20°	2508.4	7.6
20°-30°	4805.1	14.7
30°-40°	7225.7	22.0
40°-50°	7769.2	23.7
50°-60°	4329.1	13.2
60°-70°	1428.1	4.4
70°-80°	770.2	2.3
80°-90°	370.9	1.1
90°-100°	123.5	0.4
100°-110°	161.0	0.5
110°-120°	298.4	0.9
120°-130°	408.9	1.2
130°-140°	472.7	1.4
140°-150°	473.5	1.4
150°-160°	415.5	1.3
160°-170°	309.2	0.9
170°-180°	112.9	0.3
0°-30°	8128.0	24.8
0°-40°	15353.7	46.8
0°-60°	27451.9	83.7
0°-90°	30021.1	91.5
90°-120°	583.0	1.8
90°-150°	1938.0	5.9
90°-180°	2775.0	8.5
0°-180°	32796.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8610	
5°	8554	814
15°	8706	2508
25°	10352	4805
35°	11580	7226
45°	10355	7769
55°	4734	4329
65°	1322	1428
75°	737	770
85°	313	317
90°	164	91
95°	103	87
105°	146	161
115°	306	298
125°	457	409
135°	614	473
145°	757	473
155°	898	415
165°	1115	309
175°	1196	113
180°	1205	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8610.5
2.5°	8596.8
5°	8554.2
7.5°	8511.7
10°	8495.0
12.5°	8537.5
15°	8706.2
17.5°	9008.6
20°	9414.4
22.5°	9877.9
25°	10352.0
27.5°	10794.2
30°	11169.6
32.5°	11434.0
35°	11579.9
37.5°	11616.4
40°	11531.3
42.5°	11196.9
45°	10355.0
47.5°	9159.1
50°	7727.5
52.5°	6204.8
55°	4733.8
57.5°	3475.5
60°	2455.8
62.5°	1771.9
65°	1322.1
67.5°	1034.9
70°	875.3
72.5°	793.3
75°	737.0
77.5°	667.1
80°	562.3
82.5°	454.4
85°	313.1
87.5°	231.0
90°	164.1
92.5°	103.3
95°	103.3
97.5°	106.4
100°	115.5
102.5°	127.7
105°	145.9
107.5°	171.7
110°	214.3



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	262.9
115°	305.5
117.5°	341.9
120°	378.4
122.5°	419.4
125°	457.4
127.5°	495.4
130°	534.9
132.5°	574.4
135°	613.9
137.5°	650.4
140°	686.9
142.5°	721.8
145°	756.8
147.5°	790.2
150°	826.7
152.5°	861.7
155°	898.1
157.5°	939.2
160°	993.9
162.5°	1063.8
165°	1115.4
167.5°	1139.8
170°	1158.0
172.5°	1179.3
175°	1196.0
177.5°	1203.6
180°	1205.1

(END OF REPORT)