

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: P219454

Luminaire Tested: **SSLED-LD5-36-W-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: P219454
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-L840-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) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31791.1 lumens
Efficiency: N/A
Efficacy: 95.2 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

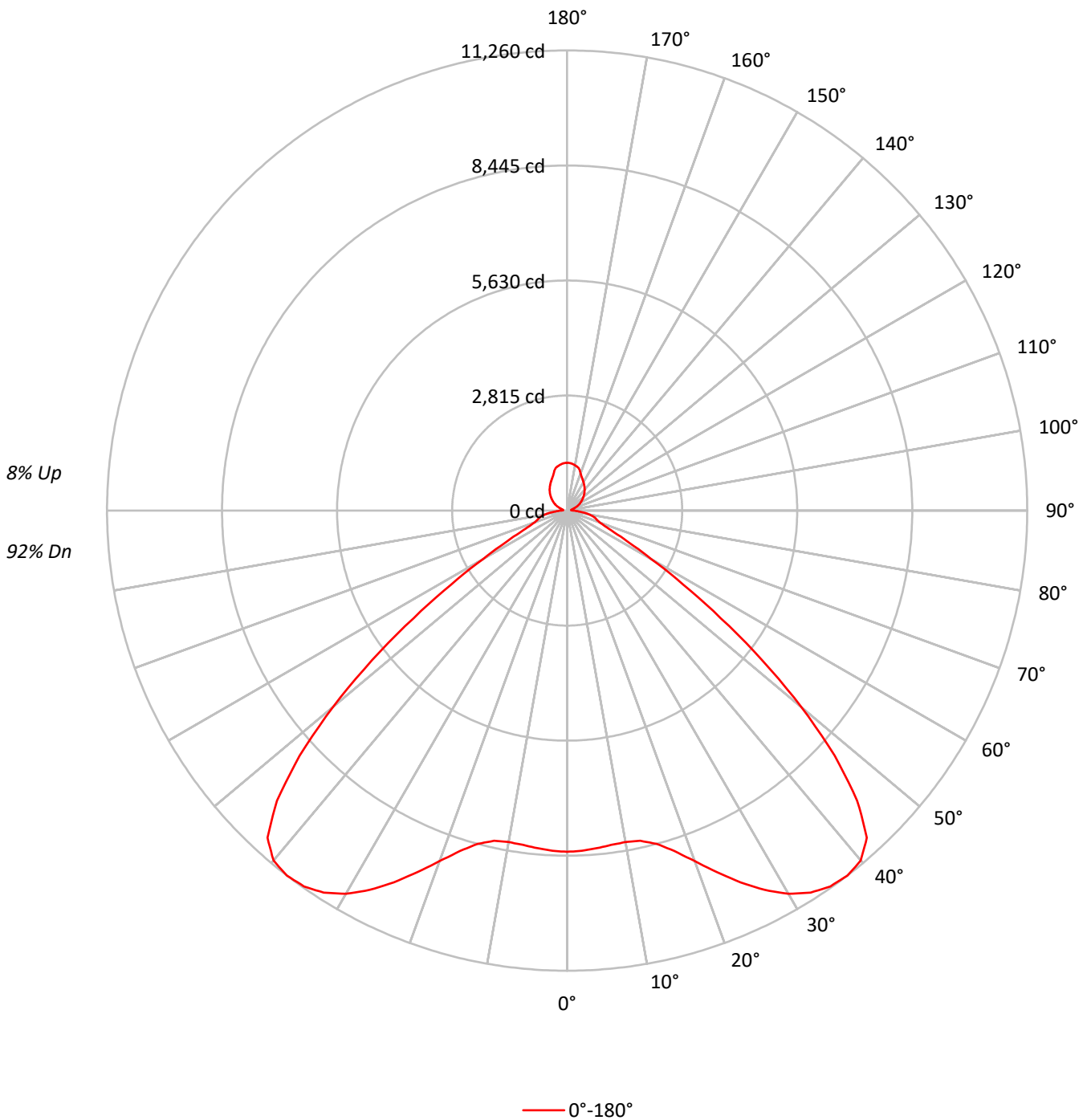
Input Watts (W): 333.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	57537
5°	57380
10°	57641
15°	60229
20°	66946
25°	76325
30°	86184
35°	94463
40°	100587
45°	97856
50°	80332
55°	55149
60°	32820
65°	20905
70°	17102
75°	19028
80°	21636
85°	24005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.5	2.5
10°-20°	2431.5	7.6
20°-30°	4657.8	14.7
30°-40°	7004.2	22.0
40°-50°	7531.0	23.7
50°-60°	4196.3	13.2
60°-70°	1384.4	4.4
70°-80°	746.5	2.3
80°-90°	359.5	1.1
90°-100°	119.8	0.4
100°-110°	156.1	0.5
110°-120°	289.2	0.9
120°-130°	396.3	1.2
130°-140°	458.2	1.4
140°-150°	459.0	1.4
150°-160°	402.7	1.3
160°-170°	299.7	0.9
170°-180°	109.4	0.3
0°-30°	7878.8	24.8
0°-40°	14883.0	46.8
0°-60°	26610.3	83.7
0°-90°	29100.7	91.5
90°-120°	565.1	1.8
90°-150°	1878.6	5.9
90°-180°	2690.0	8.5
0°-180°	31791.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8346	
5°	8292	789
15°	8439	2431
25°	10035	4658
35°	11225	7004
45°	10038	7531
55°	4589	4196
65°	1282	1384
75°	714	747
85°	304	307
90°	159	88
95°	100	84
105°	141	156
115°	296	289
125°	443	396
135°	595	458
145°	734	459
155°	871	403
165°	1081	300
175°	1159	109
180°	1168	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8346.5
2.5°	8333.2
5°	8292.0
7.5°	8250.7
10°	8234.5
12.5°	8275.8
15°	8439.3
17.5°	8732.4
20°	9125.7
22.5°	9575.0
25°	10034.6
27.5°	10463.3
30°	10827.2
32.5°	11083.5
35°	11224.9
37.5°	11260.2
40°	11177.7
42.5°	10853.7
45°	10037.6
47.5°	8878.3
50°	7490.6
52.5°	6014.6
55°	4588.7
57.5°	3368.9
60°	2380.5
62.5°	1717.6
65°	1281.6
67.5°	1003.2
70°	848.5
72.5°	768.9
75°	714.4
77.5°	646.7
80°	545.0
82.5°	440.5
85°	303.5
87.5°	223.9
90°	159.1
92.5°	100.2
95°	100.2
97.5°	103.1
100°	112.0
102.5°	123.7
105°	141.4
107.5°	166.5
110°	207.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	254.8
115°	296.1
117.5°	331.4
120°	366.8
122.5°	406.6
125°	443.4
127.5°	480.2
130°	518.5
132.5°	556.8
135°	595.1
137.5°	630.5
140°	665.8
142.5°	699.7
145°	733.6
147.5°	766.0
150°	801.4
152.5°	835.2
155°	870.6
157.5°	910.4
160°	963.4
162.5°	1031.2
165°	1081.2
167.5°	1104.8
170°	1122.5
172.5°	1143.1
175°	1159.3
177.5°	1166.7
180°	1168.2

(END OF REPORT)