

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: P219388

Luminaire Tested: **SSLED-LD5-30-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: P219388
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-LD5-30-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: 27097.0 lumens
Efficiency: N/A
Efficacy: 101.7 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

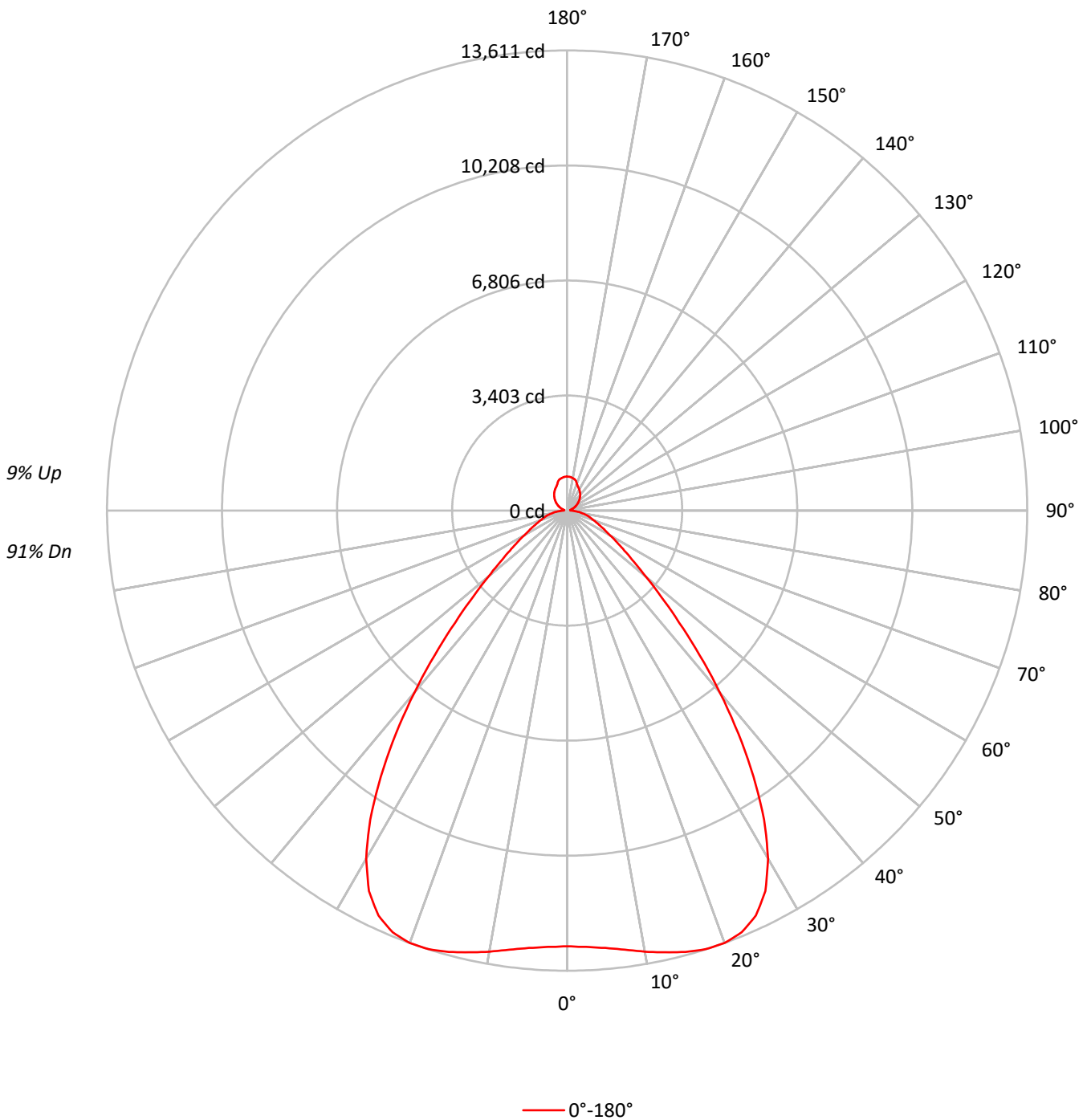
Input Watts (W): 266.35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	88835
5°	89856
10°	92733
15°	96456
20°	99853
25°	100516
30°	94638
35°	80855
40°	63272
45°	45640
50°	32523
55°	24840
60°	20314
65°	17855
70°	16745
75°	17251
80°	18444
85°	19869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1247.9	4.6
10°-20°	3827.8	14.1
20°-30°	6012.5	22.2
30°-40°	5942.8	21.9
40°-50°	3689.4	13.6
50°-60°	1905.5	7.0
60°-70°	1103.4	4.1
70°-80°	683.1	2.5
80°-90°	301.2	1.1
90°-100°	108.0	0.4
100°-110°	141.5	0.5
110°-120°	251.3	0.9
120°-130°	349.4	1.3
130°-140°	409.6	1.5
140°-150°	412.6	1.5
150°-160°	356.3	1.3
160°-170°	260.3	1.0
170°-180°	94.4	0.3
0°-30°	11088.2	40.9
0°-40°	17031.1	62.9
0°-60°	22625.9	83.5
0°-90°	24713.6	91.2
90°-120°	500.8	1.8
90°-150°	1672.4	6.2
90°-180°	2383.0	8.8
0°-180°	27097.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12887	
5°	12985	###
15°	13516	3828
25°	13215	6013
35°	9608	5943
45°	4682	3689
55°	2067	1905
65°	1095	1103
75°	648	683
85°	251	257
90°	134	74
95°	92	78
105°	128	141
115°	255	251
125°	390	349
135°	532	410
145°	660	413
155°	770	356
165°	938	260
175°	999	94
180°	1005	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12886.7
2.5°	12919.6
5°	12985.2
7.5°	13097.6
10°	13247.8
12.5°	13382.9
15°	13515.5
17.5°	13605.1
20°	13611.4
22.5°	13499.1
25°	13215.0
27.5°	12691.0
30°	11889.3
32.5°	10838.9
35°	9607.9
37.5°	8317.6
40°	7031.1
42.5°	5798.8
45°	4681.5
47.5°	3763.6
50°	3032.6
52.5°	2491.0
55°	2066.8
57.5°	1743.6
60°	1473.4
62.5°	1262.5
65°	1094.6
67.5°	953.2
70°	830.8
72.5°	734.8
75°	647.7
77.5°	558.0
80°	464.6
82.5°	368.7
85°	251.2
87.5°	186.9
90°	133.8
92.5°	87.1
95°	92.2
97.5°	97.2
100°	104.8
102.5°	114.9
105°	127.5
107.5°	149.0
110°	184.3



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	220.9
115°	255.0
117.5°	287.9
120°	320.7
122.5°	356.0
125°	390.1
127.5°	425.5
130°	462.1
132.5°	497.4
135°	531.5
137.5°	564.4
140°	597.2
142.5°	630.0
145°	660.3
147.5°	689.3
150°	717.1
152.5°	742.4
155°	770.1
157.5°	801.7
160°	842.1
162.5°	896.4
165°	938.1
167.5°	957.0
170°	970.9
172.5°	986.0
175°	998.7
177.5°	1003.7
180°	1005.0

(END OF REPORT)