

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: P219445

Luminaire Tested: **SSLED-LD5-18-W-UNV-L840-CD1-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: P219445
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-LD5-18-W-UNV-L840-CD1-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: 16069.8 lumens
Efficiency: N/A
Efficacy: 120.1 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

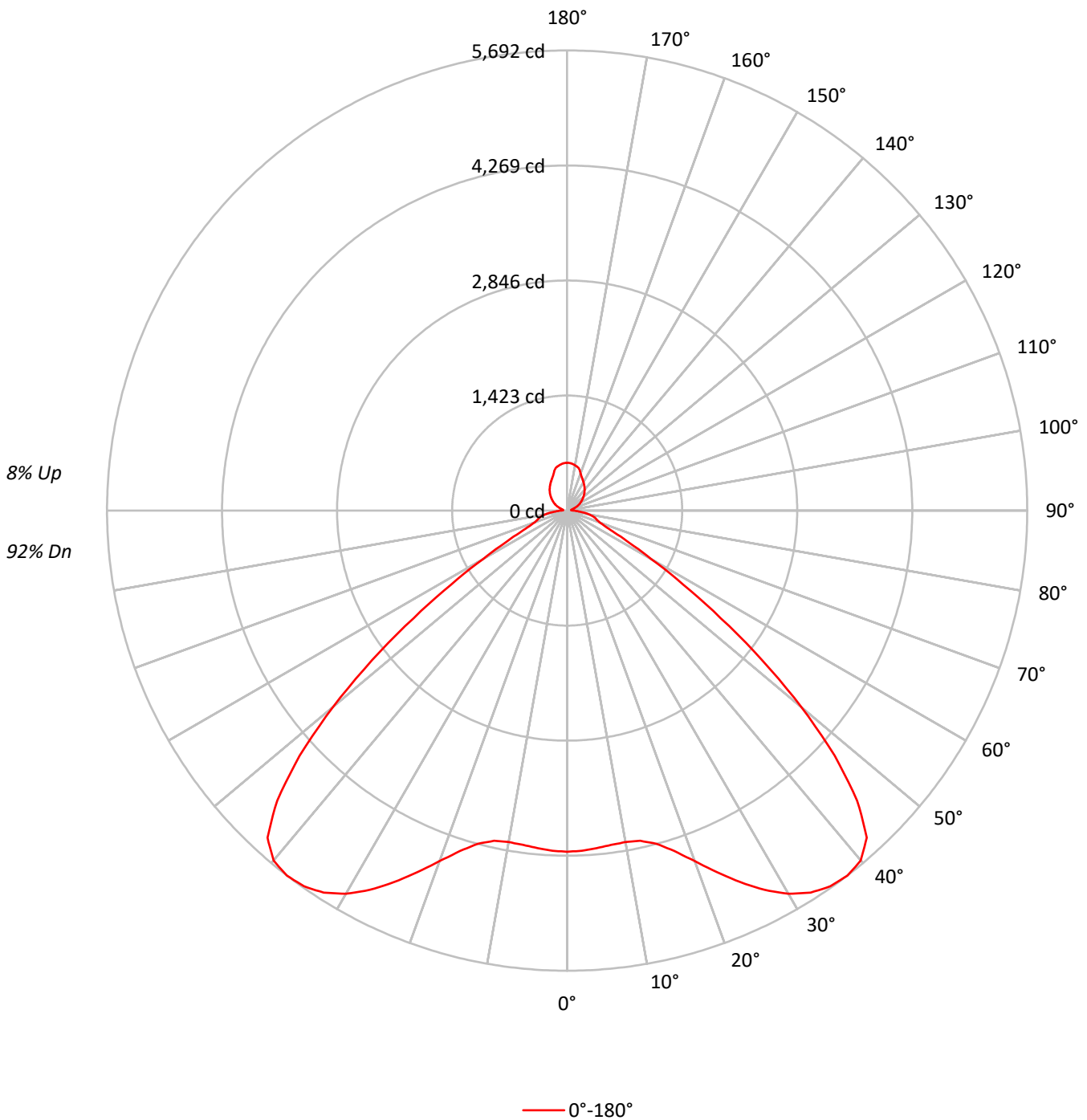
Input Watts (W): 133.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	29084
5°	29004
10°	29136
15°	30445
20°	33840
25°	38581
30°	43564
35°	47749
40°	50845
45°	49464
50°	40607
55°	27877
60°	16590
65°	10567
70°	8645
75°	9618
80°	10937
85°	12133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.1	2.5
10°-20°	1229.1	7.6
20°-30°	2354.4	14.7
30°-40°	3540.5	22.0
40°-50°	3806.8	23.7
50°-60°	2121.2	13.2
60°-70°	699.8	4.4
70°-80°	377.4	2.3
80°-90°	181.7	1.1
90°-100°	60.5	0.4
100°-110°	78.9	0.5
110°-120°	146.2	0.9
120°-130°	200.3	1.2
130°-140°	231.6	1.4
140°-150°	232.0	1.4
150°-160°	203.6	1.3
160°-170°	151.5	0.9
170°-180°	55.3	0.3
0°-30°	3982.6	24.8
0°-40°	7523.1	46.8
0°-60°	13451.1	83.7
0°-90°	14709.9	91.5
90°-120°	285.6	1.8
90°-150°	949.5	5.9
90°-180°	1360.0	8.5
0°-180°	16069.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4219	
5°	4191	399
15°	4266	1229
25°	5072	2354
35°	5674	3541
45°	5074	3807
55°	2320	2121
65°	648	700
75°	361	377
85°	153	155
90°	80	44
95°	51	43
105°	72	79
115°	150	146
125°	224	200
135°	301	232
145°	371	232
155°	440	204
165°	546	151
175°	586	55
180°	590	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4219.0
2.5°	4212.3
5°	4191.4
7.5°	4170.6
10°	4162.4
12.5°	4183.3
15°	4265.9
17.5°	4414.1
20°	4612.9
22.5°	4840.0
25°	5072.3
27.5°	5289.0
30°	5472.9
32.5°	5602.5
35°	5674.0
37.5°	5691.9
40°	5650.2
42.5°	5486.3
45°	5073.8
47.5°	4487.8
50°	3786.4
52.5°	3040.3
55°	2319.5
57.5°	1702.9
60°	1203.3
62.5°	868.2
65°	647.8
67.5°	507.1
70°	428.9
72.5°	388.7
75°	361.1
77.5°	326.9
80°	275.5
82.5°	222.6
85°	153.4
87.5°	113.2
90°	80.4
92.5°	50.6
95°	50.6
97.5°	52.1
100°	56.6
102.5°	62.5
105°	71.5
107.5°	84.1
110°	105.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	128.8
115°	149.7
117.5°	167.5
120°	185.4
122.5°	205.5
125°	224.1
127.5°	242.7
130°	262.1
132.5°	281.5
135°	300.8
137.5°	318.7
140°	336.6
142.5°	353.7
145°	370.8
147.5°	387.2
150°	405.1
152.5°	422.2
155°	440.1
157.5°	460.2
160°	487.0
162.5°	521.2
165°	546.5
167.5°	558.5
170°	567.4
172.5°	577.8
175°	586.0
177.5°	589.7
180°	590.5

(END OF REPORT)