

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: P219424

Luminaire Tested: **SSLED-LD5-18-W-UNV-L840-CD1-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: P219424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27368)
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-U
Description: METALUX ROUND HIGH BAY STEELER LED WITH WIDE DISTRIBUTION LENS WITH Rev.G BOARD. LENS DIFFUSE 2407, 7.5% BLEND.
Light Source: (240) 4000K CCT, 80 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18146.6 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1.9 / 1.9 / 1.7
Luminous Opening: Circular (Dia: 1.41' x H: 0')
CIE Type: Direct

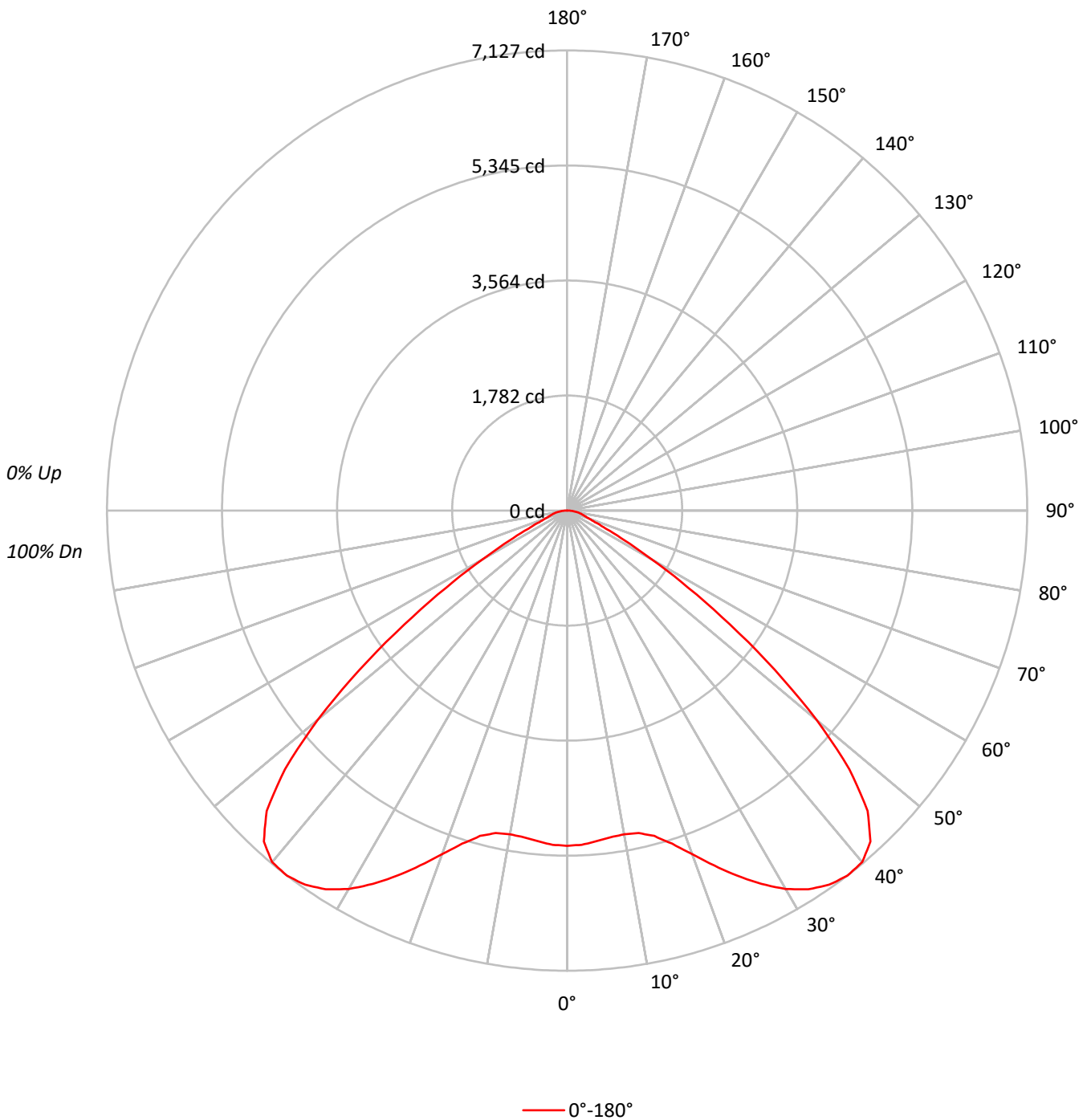
Input Watts (W): 133.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	107	103	100	108	105	101	99	100	98	95		97	95	93		93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81		87	83	80		84	81	78	76
3	94	85	77	72	92	83	76	71	80	74	70		77	73	69		75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60		69	64	59		67	63	59	57
5	79	67	59	53	77	66	59	53	64	57	52		62	56	52		61	55	51	49
6	73	61	52	46	71	60	52	46	58	51	46		56	50	45		55	49	45	43
7	68	55	46	41	66	54	46	40	52	45	40		51	45	40		50	44	40	38
8	63	50	41	36	61	49	41	36	48	41	36		46	40	35		45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32		43	36	32		42	36	31	30
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	35788
5°	35585
10°	35626
15°	37232
20°	41543
25°	47468
30°	53867
35°	59537
40°	63966
45°	64151
50°	54063
55°	36979
60°	20871
65°	10834
70°	7099
75°	6565
80°	6800
85°	6770



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.0	2.7
10°-20°	1504.8	8.3
20°-30°	2899.2	16.0
30°-40°	4416.3	24.3
40°-50°	4922.6	27.1
50°-60°	2802.0	15.4
60°-70°	753.2	4.2
70°-80°	266.3	1.5
80°-90°	93.2	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4893.0	27.0
0°-40°	9309.3	51.3
0°-60°	17033.9	93.9
0°-90°	18146.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18146.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5192	
5°	5142	489
15°	5217	1505
25°	6241	2899
35°	7075	4416
45°	6580	4923
55°	3077	2802
65°	664	753
75°	246	266
85°	86	93
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5191.5
2.5°	5180.4
5°	5142.4
7.5°	5104.4
10°	5089.5
12.5°	5114.1
15°	5216.9
17.5°	5409.0
20°	5662.9
22.5°	5948.8
25°	6240.7
27.5°	6519.2
30°	6767.2
32.5°	6954.1
35°	7074.7
37.5°	7126.8
40°	7108.2
42.5°	6953.3
45°	6580.3
47.5°	5928.7
50°	5041.1
52.5°	4054.5
55°	3076.8
57.5°	2221.2
60°	1513.8
62.5°	1003.8
65°	664.2
67.5°	463.2
70°	352.2
72.5°	288.9
75°	246.5
77.5°	212.2
80°	171.3
82.5°	126.6
85°	85.6
87.5°	44.7
90°	0.0

(END OF REPORT)