

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: P219448

Luminaire Tested: **SSLED-LD5-24-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: P219448
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-LD5-24-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: 21532.8 lumens
Efficiency: N/A
Efficacy: 113.0 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

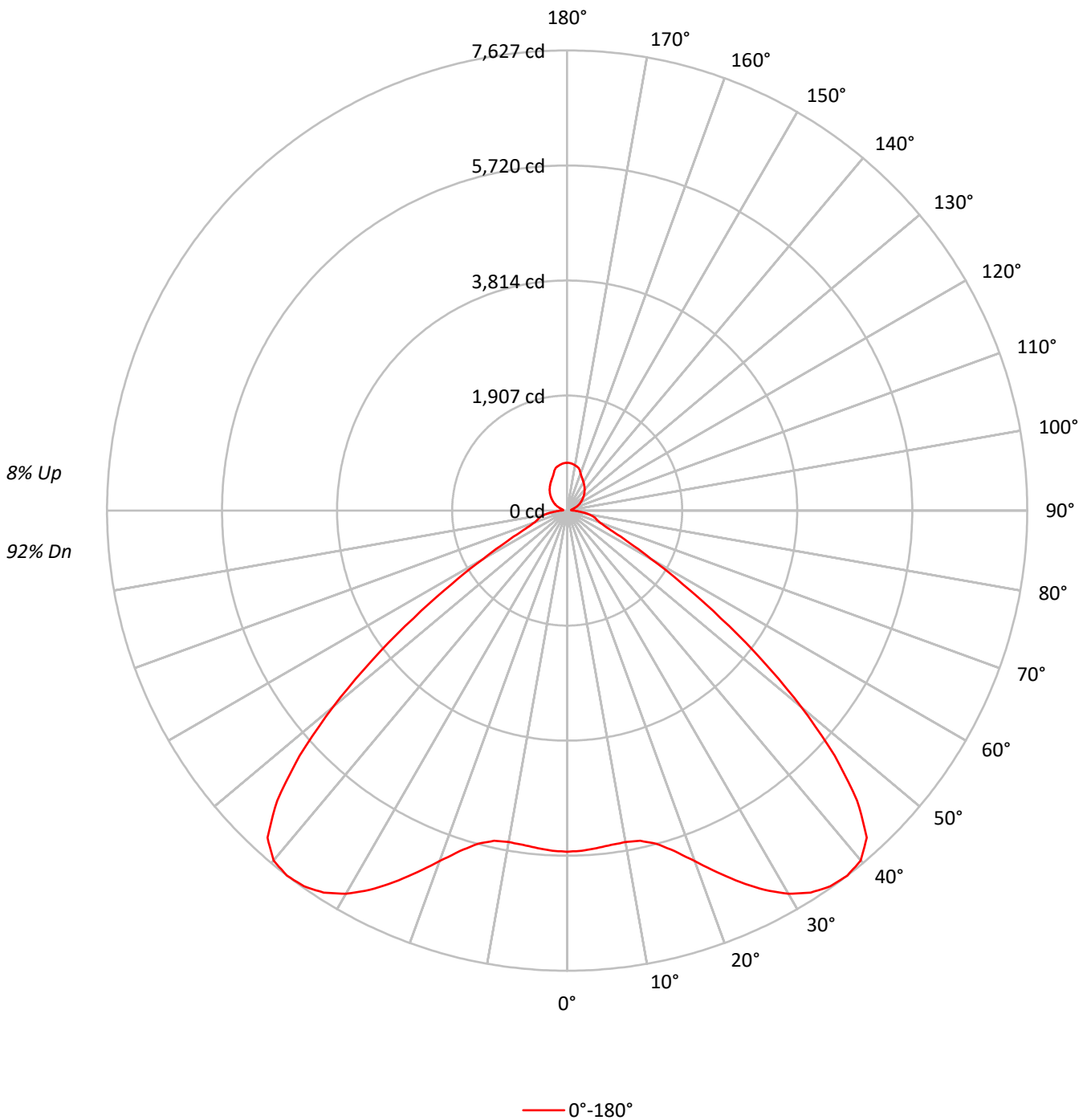
Input Watts (W): 190.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	38971
5°	38864
10°	39041
15°	40794
20°	45344
25°	51697
30°	58374
35°	63982
40°	68130
45°	66280
50°	54412
55°	37354
60°	22230
65°	14158
70°	11583
75°	12888
80°	14657
85°	16254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.7	2.5
10°-20°	1646.9	7.6
20°-30°	3154.8	14.7
30°-40°	4744.1	22.0
40°-50°	5100.9	23.7
50°-60°	2842.3	13.2
60°-70°	937.7	4.4
70°-80°	505.7	2.3
80°-90°	243.5	1.1
90°-100°	81.1	0.4
100°-110°	105.7	0.5
110°-120°	195.9	0.9
120°-130°	268.5	1.2
130°-140°	310.4	1.4
140°-150°	310.9	1.4
150°-160°	272.8	1.3
160°-170°	203.0	0.9
170°-180°	74.1	0.3
0°-30°	5336.5	24.8
0°-40°	10080.6	46.8
0°-60°	18023.8	83.7
0°-90°	19710.6	91.5
90°-120°	382.7	1.8
90°-150°	1272.4	5.9
90°-180°	1822.0	8.5
0°-180°	21532.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5653	
5°	5616	535
15°	5716	1647
25°	6797	3155
35°	7603	4744
45°	6799	5101
55°	3108	2842
65°	868	938
75°	484	506
85°	206	208
90°	108	60
95°	68	57
105°	96	106
115°	200	196
125°	300	268
135°	403	310
145°	497	311
155°	590	273
165°	732	203
175°	785	74
180°	791	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5653.3
2.5°	5644.3
5°	5616.3
7.5°	5588.4
10°	5577.4
12.5°	5605.4
15°	5716.1
17.5°	5914.7
20°	6181.1
22.5°	6485.4
25°	6796.7
27.5°	7087.0
30°	7333.5
32.5°	7507.1
35°	7602.9
37.5°	7626.8
40°	7570.9
42.5°	7351.4
45°	6798.7
47.5°	6013.5
50°	5073.6
52.5°	4073.8
55°	3108.0
57.5°	2281.9
60°	1612.4
62.5°	1163.4
65°	868.0
67.5°	679.5
70°	574.7
72.5°	520.8
75°	483.9
77.5°	438.0
80°	369.2
82.5°	298.3
85°	205.5
87.5°	151.7
90°	107.8
92.5°	67.8
95°	67.8
97.5°	69.8
100°	75.8
102.5°	83.8
105°	95.8
107.5°	112.7
110°	140.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	172.6
115°	200.5
117.5°	224.5
120°	248.4
122.5°	275.4
125°	300.3
127.5°	325.3
130°	351.2
132.5°	377.2
135°	403.1
137.5°	427.0
140°	451.0
142.5°	473.9
145°	496.9
147.5°	518.8
150°	542.8
152.5°	565.7
155°	589.7
157.5°	616.6
160°	652.5
162.5°	698.4
165°	732.3
167.5°	748.3
170°	760.3
172.5°	774.3
175°	785.2
177.5°	790.2
180°	791.2

(END OF REPORT)