

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: P284507

Luminaire Tested: **4SNLED-LD5-48SL-SLW-UNV-L835-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: P284507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-48SL-SLW-UNV-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4812.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

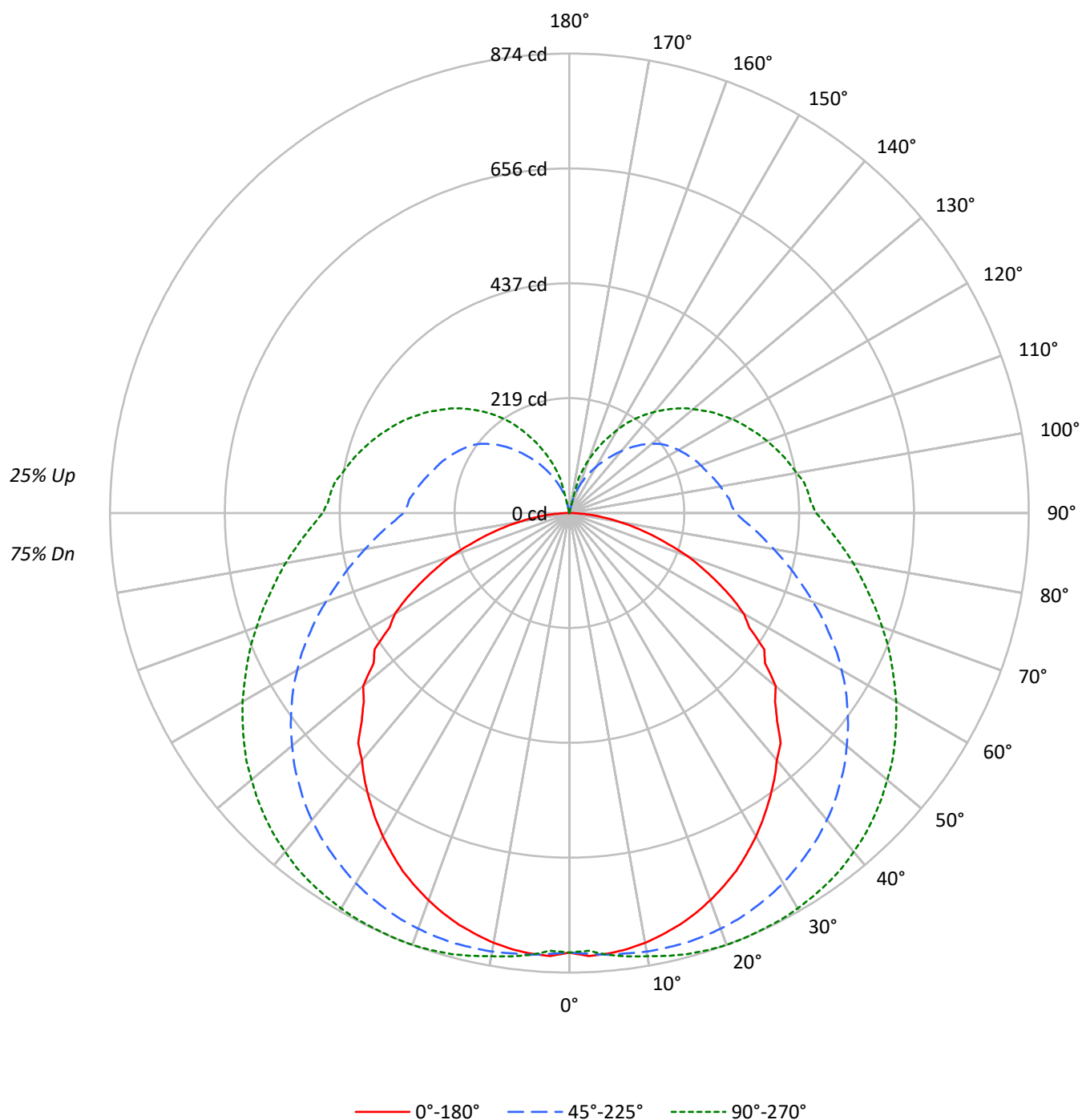
Input Watts (W): 46
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75		
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56		
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44		
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36		
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30		
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25		
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22		
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19		
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17		
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15		
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6754	6754	6754
5°	6805	6674	6624
10°	6773	6615	6587
15°	6726	6579	6601
20°	6663	6549	6614
25°	6599	6526	6624
30°	6508	6505	6660
35°	6407	6482	6705
40°	6311	6478	6748
45°	6191	6462	6803
50°	6209	6449	6857
55°	6099	6449	6938
60°	5875	6453	7032
65°	5550	6460	7163
70°	5192	6509	7364
75°	4555	6659	7662
80°	3846	6979	8155
85°	2856	7629	8877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	1.7
10°-20°	238.0	4.9
20°-30°	378.3	7.9
30°-40°	485.6	10.1
40°-50°	548.3	11.4
50°-60°	559.5	11.6
60°-70°	518.3	10.8
70°-80°	438.8	9.1
80°-90°	350.3	7.3
90°-100°	297.5	6.2
100°-110°	265.0	5.5
110°-120°	225.7	4.7
120°-130°	179.3	3.7
130°-140°	127.2	2.6
140°-150°	75.9	1.6
150°-160°	35.4	0.7
160°-170°	8.4	0.2
170°-180°	0.0	0.0
0°-30°	696.7	14.5
0°-40°	1182.3	24.6
0°-60°	2290.1	47.6
0°-90°	3597.6	74.8
90°-120°	788.2	16.4
90°-150°	1170.6	24.3
90°-180°	1214.0	25.2
0°-180°	4812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	841	834	843	843	843	80
15°	811	817	847	863	868	229
25°	751	776	830	859	873	346
35°	664	712	789	838	858	415
45°	559	634	728	792	819	434
55°	452	528	646	725	756	397
65°	310	413	546	640	676	307
75°	163	288	442	551	589	173
85°	42	186	353	467	506	46
90°	2	152	316	430	469	3
95°	0	142	305	417	456	0
105°	0	131	278	383	421	0
115°	0	122	253	345	379	0
125°	0	105	225	304	334	0
135°	0	78	181	257	280	0
145°	0	51	127	192	219	0
155°	1	32	78	118	146	1
165°	1	17	35	48	69	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.8	835.8	835.8	835.8	835.8
2.5°	843.4	834.5	839.1	837.9	833.3
5°	841.2	834.5	843.4	843.4	843.4
7.5°	836.7	832.1	844.6	849.2	850.4
10°	830.0	830.0	847.0	853.8	855.9
12.5°	820.8	824.2	847.0	857.1	862.6
15°	810.7	817.4	847.0	862.6	868.4
17.5°	798.2	809.5	844.6	863.8	871.8
20°	783.6	800.7	841.2	863.8	874.2
22.5°	767.7	789.4	836.7	861.7	874.2
25°	750.9	775.6	830.0	859.2	873.0
27.5°	730.5	762.2	822.0	855.9	871.8
30°	710.0	746.4	812.9	851.3	868.4
32.5°	687.5	729.3	801.6	844.6	863.8
35°	663.7	712.5	789.4	837.9	858.3
37.5°	639.9	692.0	776.9	828.7	851.3
40°	613.9	671.6	762.2	817.4	841.2
42.5°	594.7	650.2	746.4	806.2	831.2
45°	558.7	634.4	728.0	791.5	818.7
47.5°	530.3	603.9	710.0	776.9	804.9
50°	512.3	578.8	688.7	759.8	789.4
52.5°	469.3	562.1	668.2	743.0	774.4
55°	452.2	528.2	645.7	724.7	756.4
57.5°	405.8	504.4	623.1	704.5	737.2
60°	383.2	471.4	598.1	684.1	718.0
62.5°	348.2	443.4	573.3	661.5	696.6
65°	309.7	412.8	546.2	639.9	676.2
67.5°	273.7	382.3	520.2	617.3	655.7
70°	238.6	350.6	493.1	594.7	633.1
72.5°	197.7	318.9	466.9	573.3	611.8
75°	162.9	288.3	442.1	550.8	589.2
77.5°	128.8	259.1	418.3	530.3	568.8
80°	97.3	230.7	394.5	509.0	548.3
82.5°	67.7	206.9	373.2	488.5	527.0
85°	41.8	185.5	352.7	466.9	506.5
87.5°	19.2	166.3	332.3	446.7	487.3
90°	2.1	151.7	315.5	429.6	469.3
92.5°	1.2	147.1	308.8	421.7	460.1
95°	0.0	142.5	305.4	417.1	455.6
97.5°	0.0	137.9	297.5	410.4	450.1
100°	0.0	135.8	291.7	400.3	438.8
102.5°	0.0	132.4	285.0	391.2	429.6
105°	0.0	131.2	278.3	383.2	420.8
107.5°	0.0	128.8	271.3	373.2	410.4
110°	0.0	126.6	265.8	364.0	400.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	124.5	260.0	355.2	390.0
115°	0.0	122.1	253.3	344.8	378.7
117.5°	0.0	118.7	246.5	334.7	368.6
120°	0.0	114.1	239.8	325.6	357.3
122.5°	0.0	109.5	232.8	314.3	344.8
125°	0.0	105.3	224.9	304.2	333.5
127.5°	0.0	98.3	216.0	292.9	320.1
130°	0.0	91.5	204.7	281.6	307.6
132.5°	1.2	84.8	193.5	269.1	295.1
135°	0.0	78.1	180.9	256.6	280.4
137.5°	0.0	72.3	167.2	243.2	265.8
140°	0.0	65.6	153.8	227.3	251.1
142.5°	0.0	57.7	140.4	210.2	235.3
145°	0.0	51.0	126.6	192.2	219.4
147.5°	1.2	45.2	114.1	173.0	202.3
150°	1.2	40.6	101.9	153.8	183.1
152.5°	1.2	36.3	89.4	135.8	163.9
155°	1.2	31.7	78.1	117.5	145.9
157.5°	1.2	27.2	65.6	99.5	126.6
160°	1.2	23.8	54.3	83.6	108.6
162.5°	1.2	20.4	44.2	65.6	89.4
165°	1.2	17.1	35.1	48.5	69.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)