

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: P284585

Luminaire Tested: **4SNLED-LD5-48SL-SLW-UNV-L850-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: P284585
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-L850-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: 4894.0 lumens
Efficiency: N/A
Efficacy: 106.4 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

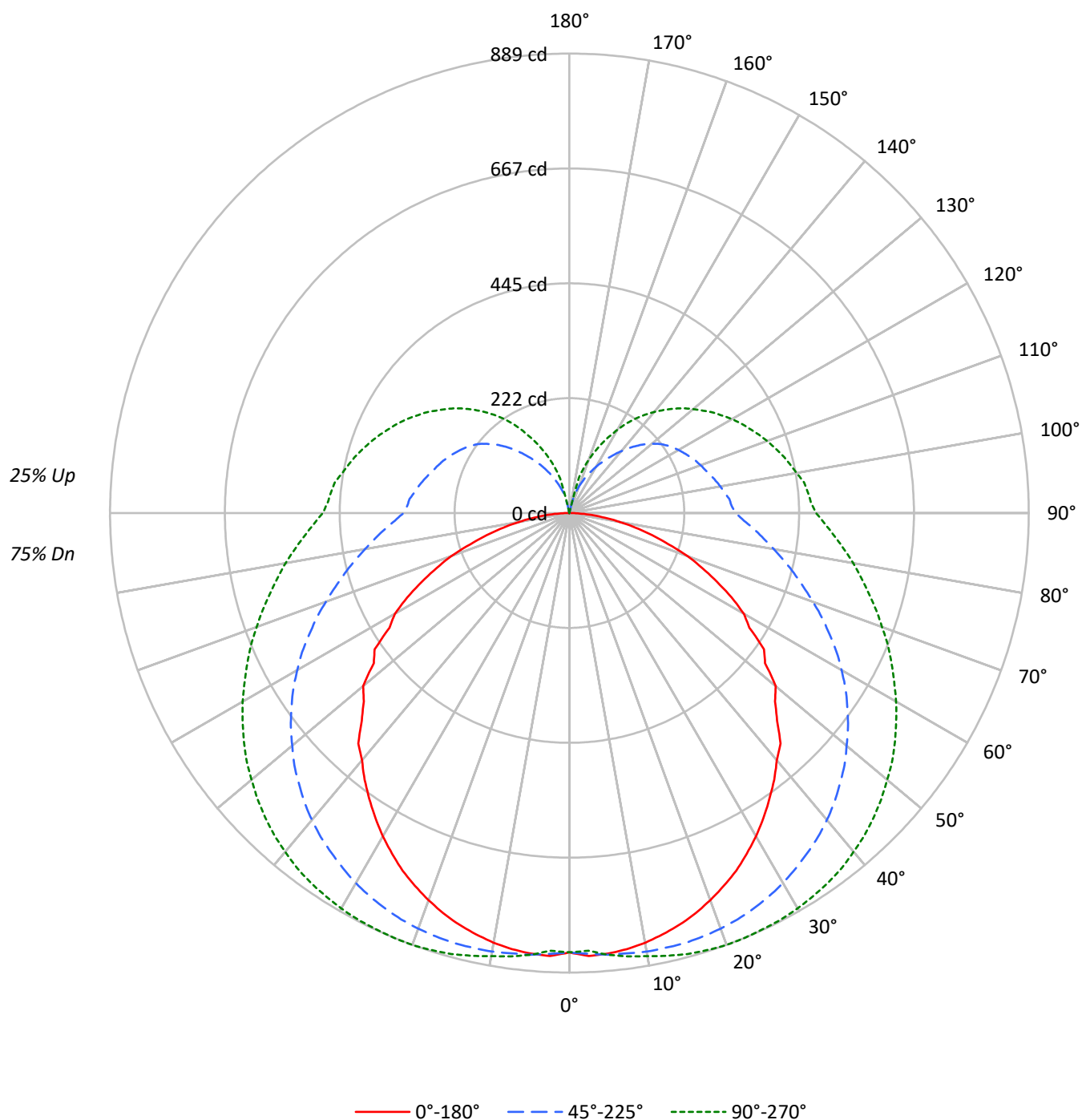
Input Watts (W): 46
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6869	6869	6869
5°	6922	6788	6737
10°	6888	6728	6700
15°	6841	6692	6714
20°	6776	6661	6727
25°	6712	6637	6738
30°	6619	6616	6773
35°	6516	6592	6820
40°	6419	6588	6864
45°	6297	6572	6918
50°	6315	6558	6973
55°	6203	6559	7056
60°	5976	6562	7152
65°	5645	6570	7285
70°	5281	6620	7489
75°	4633	6773	7792
80°	3914	7099	8295
85°	2903	7759	9027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	1.7
10°-20°	242.1	4.9
20°-30°	384.8	7.9
30°-40°	493.8	10.1
40°-50°	557.7	11.4
50°-60°	569.0	11.6
60°-70°	527.2	10.8
70°-80°	446.3	9.1
80°-90°	356.2	7.3
90°-100°	302.5	6.2
100°-110°	269.5	5.5
110°-120°	229.6	4.7
120°-130°	182.3	3.7
130°-140°	129.3	2.6
140°-150°	77.2	1.6
150°-160°	36.0	0.7
160°-170°	8.6	0.2
170°-180°	0.0	0.0
0°-30°	708.6	14.5
0°-40°	1202.4	24.6
0°-60°	2329.1	47.6
0°-90°	3658.9	74.8
90°-120°	801.6	16.4
90°-150°	1190.5	24.3
90°-180°	1235.0	25.2
0°-180°	4894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	850	850	850	850	850	
5°	856	849	858	858	858	81
15°	824	831	862	877	883	233
25°	764	789	844	874	888	352
35°	675	725	803	852	873	423
45°	568	645	740	805	833	441
55°	460	537	657	737	769	404
65°	315	420	556	651	688	313
75°	166	293	450	560	599	176
85°	42	189	359	475	515	46
90°	2	154	321	437	477	3
95°	0	145	311	424	463	0
105°	0	133	283	390	428	0
115°	0	124	258	351	385	0
125°	0	107	229	309	339	0
135°	0	79	184	261	285	0
145°	0	52	129	196	223	0
155°	1	32	79	120	148	1
165°	1	17	36	49	70	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°	850.0	850.0	850.0	850.0	850.0
2.5°	857.8	848.8	853.4	852.2	847.5
5°	855.6	848.8	857.8	857.8	857.8
7.5°	850.9	846.3	859.0	863.6	864.9
10°	844.1	844.1	861.5	868.3	870.5
12.5°	834.8	838.2	861.5	871.7	877.3
15°	824.5	831.4	861.5	877.3	883.2
17.5°	811.8	823.3	859.0	878.5	886.6
20°	796.9	814.3	855.6	878.5	889.1
22.5°	780.8	802.8	850.9	876.4	889.1
25°	763.7	788.9	844.1	873.9	887.9
27.5°	742.9	775.2	836.0	870.5	886.6
30°	722.1	759.1	826.7	865.8	883.2
32.5°	699.2	741.7	815.2	859.0	878.5
35°	675.0	724.6	802.8	852.2	873.0
37.5°	650.8	703.8	790.1	842.9	865.8
40°	624.4	683.0	775.2	831.4	855.6
42.5°	604.8	661.3	759.1	819.9	845.3
45°	568.2	645.2	740.4	805.0	832.6
47.5°	539.4	614.1	722.1	790.1	818.7
50°	521.0	588.7	700.4	772.7	802.8
52.5°	477.3	571.6	679.6	755.7	787.6
55°	459.9	537.2	656.7	737.0	769.3
57.5°	412.7	513.0	633.7	716.6	749.8
60°	389.8	479.5	608.2	695.8	730.2
62.5°	354.1	450.9	583.1	672.8	708.5
65°	315.0	419.9	555.5	650.8	687.7
67.5°	278.4	388.8	529.1	627.8	666.9
70°	242.7	356.6	501.5	604.8	643.9
72.5°	201.1	324.3	474.8	583.1	622.2
75°	165.7	293.3	449.7	560.1	599.2
77.5°	131.0	263.5	425.5	539.4	578.5
80°	99.0	234.6	401.3	517.6	557.7
82.5°	68.9	210.4	379.5	496.8	535.9
85°	42.5	188.7	358.7	474.8	515.1
87.5°	19.6	169.1	337.9	454.3	495.6
90°	2.2	154.2	320.9	436.9	477.3
92.5°	1.2	149.6	314.1	428.9	468.0
95°	0.0	144.9	310.6	424.2	463.3
97.5°	0.0	140.3	302.6	417.4	457.7
100°	0.0	138.1	296.7	407.2	446.3
102.5°	0.0	134.7	289.8	397.8	436.9
105°	0.0	133.4	283.0	389.8	427.9
107.5°	0.0	131.0	275.9	379.5	417.4
110°	0.0	128.8	270.3	370.2	407.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	126.6	264.4	361.2	396.6
115°	0.0	124.1	257.6	350.7	385.1
117.5°	0.0	120.7	250.7	340.4	374.9
120°	0.0	116.1	243.9	331.1	363.4
122.5°	0.0	111.4	236.8	319.6	350.7
125°	0.0	107.1	228.7	309.4	339.2
127.5°	0.0	99.9	219.7	297.9	325.5
130°	0.0	93.1	208.2	286.4	312.8
132.5°	1.2	86.3	196.7	273.7	300.1
135°	0.0	79.4	184.0	261.0	285.2
137.5°	0.0	73.5	170.1	247.3	270.3
140°	0.0	66.7	156.4	231.2	255.4
142.5°	0.0	58.7	142.8	213.8	239.3
145°	0.0	51.8	128.8	195.5	223.1
147.5°	1.2	45.9	116.1	176.0	205.7
150°	1.2	41.3	103.7	156.4	186.2
152.5°	1.2	36.9	90.9	138.1	166.6
155°	1.2	32.3	79.4	119.5	148.3
157.5°	1.2	27.6	66.7	101.2	128.8
160°	1.2	24.2	55.2	85.0	110.5
162.5°	1.2	20.8	45.0	66.7	90.9
165°	1.2	17.4	35.7	49.3	70.1
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)