

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: P284702

Luminaire Tested: **4SNLED-LD5-48SL-SLW-UNV-L940-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: P284702
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-L940-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: 4138.0 lumens
Efficiency: N/A
Efficacy: 90.0 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

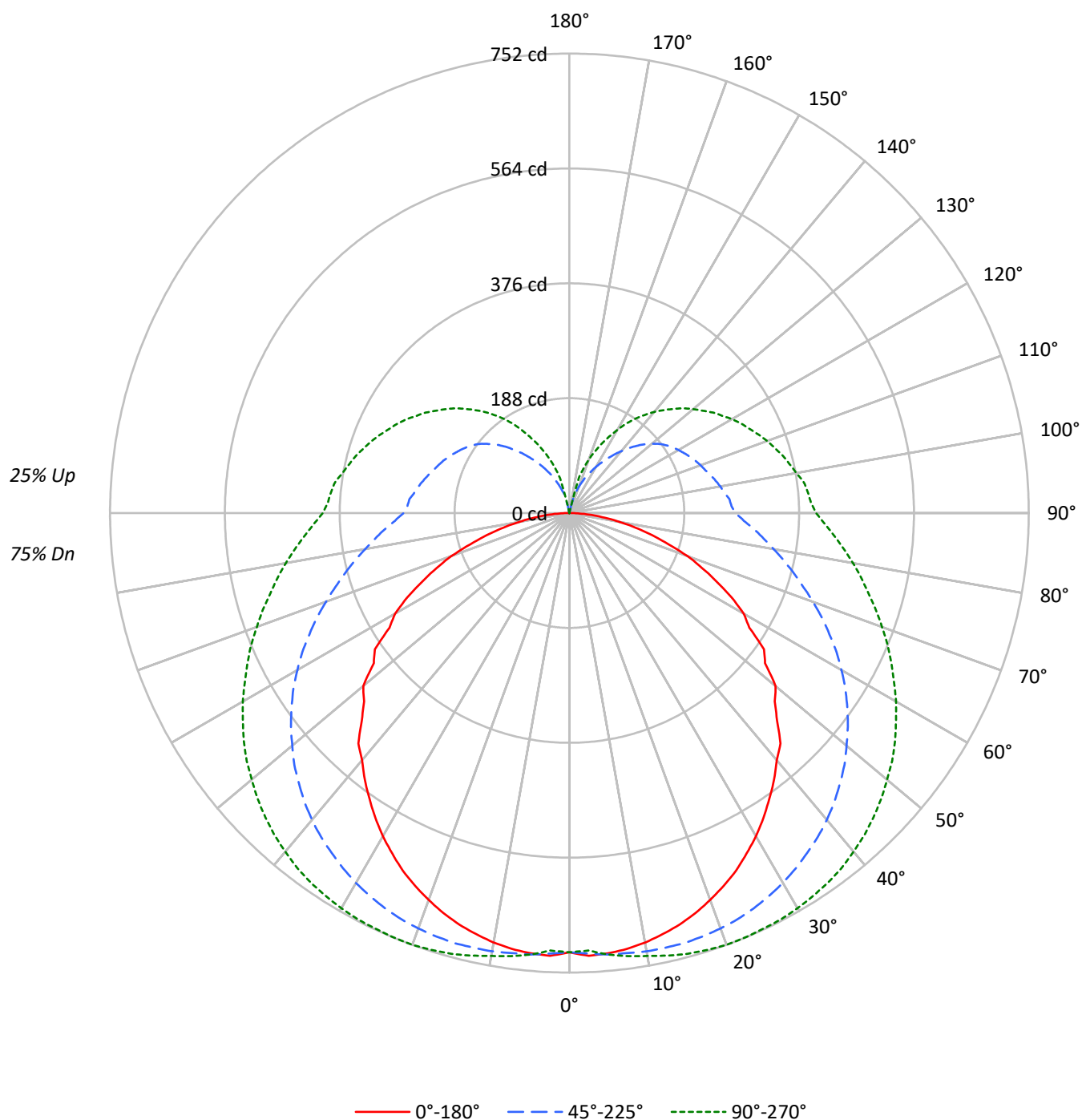
Input Watts (W): 46
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5808	5808	5808
5°	5852	5739	5696
10°	5824	5689	5664
15°	5784	5658	5677
20°	5729	5632	5688
25°	5675	5611	5696
30°	5597	5594	5727
35°	5509	5574	5766
40°	5427	5571	5803
45°	5324	5557	5850
50°	5340	5545	5896
55°	5245	5545	5966
60°	5053	5549	6047
65°	4772	5556	6160
70°	4465	5597	6333
75°	3917	5726	6589
80°	3309	6002	7013
85°	2453	6561	7634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	1.7
10°-20°	204.7	4.9
20°-30°	325.3	7.9
30°-40°	417.6	10.1
40°-50°	471.5	11.4
50°-60°	481.1	11.6
60°-70°	445.8	10.8
70°-80°	377.4	9.1
80°-90°	301.2	7.3
90°-100°	255.8	6.2
100°-110°	227.9	5.5
110°-120°	194.1	4.7
120°-130°	154.2	3.7
130°-140°	109.4	2.6
140°-150°	65.3	1.6
150°-160°	30.4	0.7
160°-170°	7.2	0.2
170°-180°	0.0	0.0
0°-30°	599.1	14.5
0°-40°	1016.7	24.6
0°-60°	1969.3	47.6
0°-90°	3093.7	74.8
90°-120°	677.8	16.4
90°-150°	1006.6	24.3
90°-180°	1044.0	25.2
0°-180°	4138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	723	718	725	725	725	69
15°	697	703	728	742	747	197
25°	646	667	714	739	751	297
35°	571	613	679	720	738	357
45°	480	546	626	681	704	373
55°	389	454	555	623	650	341
65°	266	355	470	550	582	264
75°	140	248	380	474	507	149
85°	36	160	303	402	436	39
90°	2	130	271	369	404	3
95°	0	122	263	359	392	0
105°	0	113	239	330	362	0
115°	0	105	218	296	326	0
125°	0	90	193	262	287	0
135°	0	67	156	221	241	0
145°	0	44	109	165	189	0
155°	1	27	67	101	125	0
165°	1	15	30	42	59	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°	718.7	718.7	718.7	718.7	718.7
2.5°	725.3	717.6	721.6	720.5	716.6
5°	723.4	717.6	725.3	725.3	725.3
7.5°	719.5	715.5	726.3	730.2	731.3
10°	713.7	713.7	728.4	734.2	736.0
12.5°	705.8	708.7	728.4	737.1	741.8
15°	697.2	702.9	728.4	741.8	746.8
17.5°	686.4	696.1	726.3	742.8	749.7
20°	673.8	688.5	723.4	742.8	751.8
22.5°	660.2	678.8	719.5	741.0	751.8
25°	645.7	667.0	713.7	738.9	750.7
27.5°	628.2	655.5	706.9	736.0	749.7
30°	610.6	641.8	699.0	732.1	746.8
32.5°	591.2	627.1	689.3	726.3	742.8
35°	570.7	612.7	678.8	720.5	738.1
37.5°	550.2	595.1	668.1	712.7	732.1
40°	527.9	577.5	655.5	702.9	723.4
42.5°	511.4	559.2	641.8	693.2	714.8
45°	480.4	545.5	626.1	680.6	704.0
47.5°	456.0	519.3	610.6	668.1	692.2
50°	440.6	497.8	592.2	653.4	678.8
52.5°	403.6	483.3	574.6	638.9	666.0
55°	388.9	454.2	555.2	623.2	650.5
57.5°	349.0	433.7	535.8	605.9	633.9
60°	329.6	405.4	514.3	588.3	617.4
62.5°	299.4	381.3	493.0	568.9	599.0
65°	266.3	355.0	469.7	550.2	581.5
67.5°	235.4	328.8	447.4	530.8	563.9
70°	205.2	301.5	424.0	511.4	544.5
72.5°	170.0	274.2	401.5	493.0	526.1
75°	140.1	248.0	380.2	473.6	506.7
77.5°	110.7	222.8	359.7	456.0	489.1
80°	83.7	198.4	339.3	437.7	471.5
82.5°	58.3	177.9	320.9	420.1	453.2
85°	35.9	159.5	303.3	401.5	435.6
87.5°	16.5	143.0	285.7	384.1	419.0
90°	1.8	130.4	271.3	369.4	403.6
92.5°	1.0	126.5	265.5	362.6	395.7
95°	0.0	122.5	262.7	358.7	391.8
97.5°	0.0	118.6	255.8	352.9	387.0
100°	0.0	116.8	250.8	344.3	377.3
102.5°	0.0	113.9	245.1	336.4	369.4
105°	0.0	112.8	239.3	329.6	361.8
107.5°	0.0	110.7	233.3	320.9	352.9
110°	0.0	108.9	228.5	313.0	344.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	107.1	223.6	305.4	335.3
115°	0.0	105.0	217.8	296.5	325.6
117.5°	0.0	102.1	212.0	287.8	317.0
120°	0.0	98.1	206.2	280.0	307.3
122.5°	0.0	94.2	200.2	270.3	296.5
125°	0.0	90.5	193.4	261.6	286.8
127.5°	0.0	84.5	185.8	251.9	275.2
130°	0.0	78.7	176.1	242.2	264.5
132.5°	1.0	72.9	166.4	231.4	253.7
135°	0.0	67.2	155.6	220.7	241.1
137.5°	0.0	62.2	143.8	209.1	228.5
140°	0.0	56.4	132.2	195.5	215.9
142.5°	0.0	49.6	120.7	180.8	202.3
145°	0.0	43.8	108.9	165.3	188.7
147.5°	1.0	38.8	98.1	148.8	174.0
150°	1.0	34.9	87.6	132.2	157.4
152.5°	1.0	31.2	76.9	116.8	140.9
155°	1.0	27.3	67.2	101.0	125.4
157.5°	1.0	23.4	56.4	85.5	108.9
160°	1.0	20.5	46.7	71.9	93.4
162.5°	1.0	17.6	38.0	56.4	76.9
165°	1.0	14.7	30.2	41.7	59.3
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)