

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: P284663

Luminaire Tested: **4SNLED-LD5-48SL-SLW-UNV-L935-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: P284663
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-L935-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: 4042.0 lumens
Efficiency: N/A
Efficacy: 87.9 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

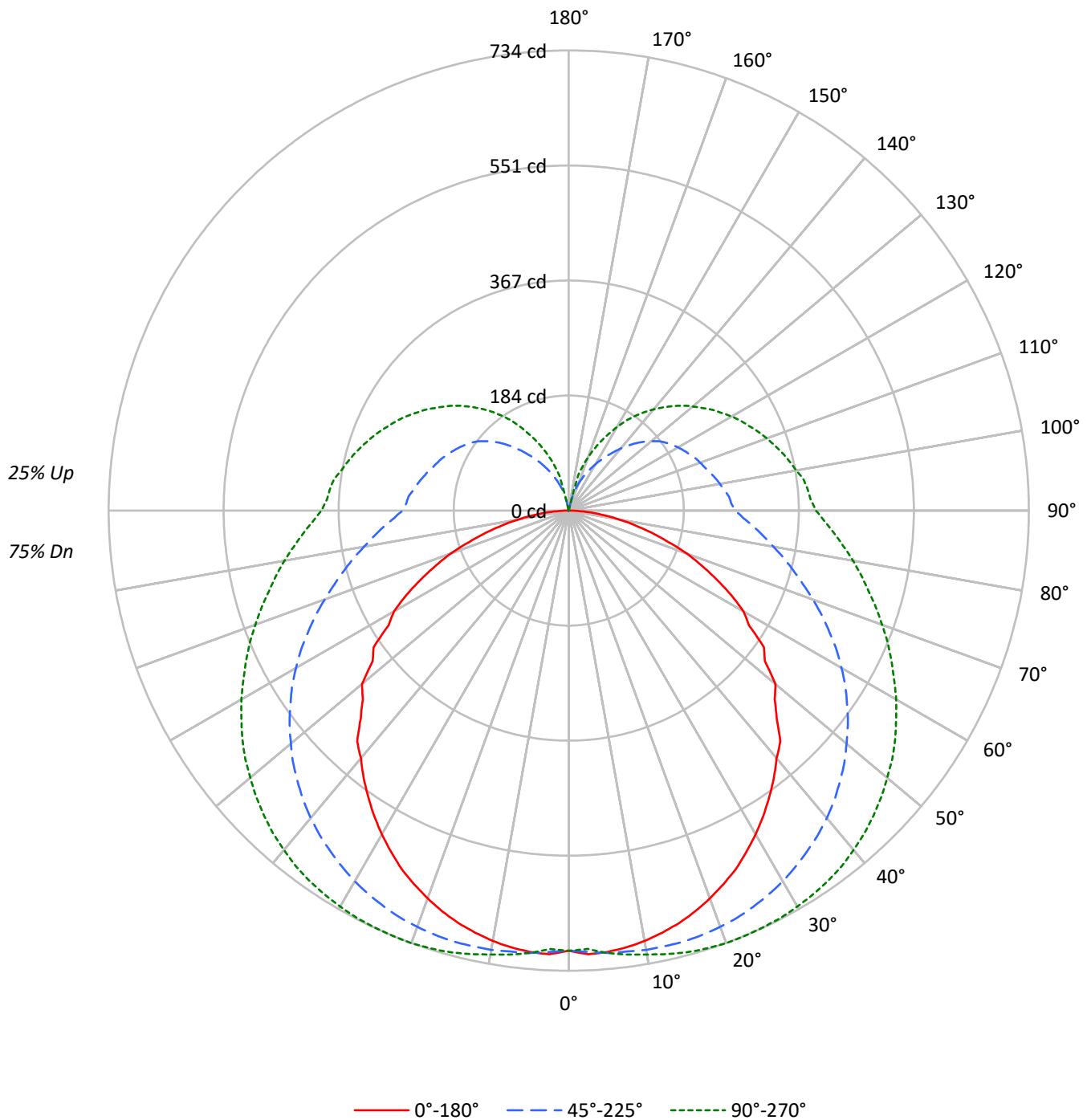
Input Watts (W): 46
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
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°	5673	5673	5673
5°	5716	5605	5564
10°	5689	5557	5533
15°	5650	5527	5545
20°	5597	5501	5556
25°	5544	5481	5564
30°	5466	5464	5594
35°	5382	5445	5632
40°	5301	5441	5668
45°	5201	5428	5714
50°	5215	5417	5760
55°	5122	5416	5828
60°	4935	5420	5907
65°	4661	5427	6017
70°	4361	5467	6186
75°	3828	5594	6436
80°	3234	5863	6851
85°	2398	6409	7457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	1.7
10°-20°	200.0	4.9
20°-30°	317.8	7.9
30°-40°	407.9	10.1
40°-50°	460.6	11.4
50°-60°	470.0	11.6
60°-70°	435.4	10.8
70°-80°	368.6	9.1
80°-90°	294.2	7.3
90°-100°	249.9	6.2
100°-110°	222.6	5.5
110°-120°	189.6	4.7
120°-130°	150.6	3.7
130°-140°	106.8	2.6
140°-150°	63.8	1.6
150°-160°	29.7	0.7
160°-170°	7.1	0.2
170°-180°	0.0	0.0
0°-30°	585.2	14.5
0°-40°	993.1	24.6
0°-60°	1923.7	47.6
0°-90°	3021.9	74.8
90°-120°	662.1	16.4
90°-150°	983.3	24.3
90°-180°	1020.0	25.2
0°-180°	4042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	707	701	708	708	708	67
15°	681	687	712	725	729	192
25°	631	652	697	722	733	290
35°	558	598	663	704	721	349
45°	469	533	612	665	688	364
55°	380	444	542	609	635	333
65°	260	347	459	538	568	258
75°	137	242	371	463	495	146
85°	35	156	296	392	426	38
90°	2	127	265	361	394	3
95°	0	120	257	350	383	0
105°	0	110	234	322	353	0
115°	0	102	213	290	318	0
125°	0	88	189	256	280	0
135°	0	66	152	216	236	0
145°	0	43	106	162	184	0
155°	1	27	66	99	122	0
165°	1	14	30	41	58	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°	702.0	702.0	702.0	702.0	702.0
2.5°	708.4	701.0	704.8	703.8	700.0
5°	706.6	701.0	708.4	708.4	708.4
7.5°	702.8	698.9	709.5	713.3	714.3
10°	697.1	697.1	711.5	717.1	718.9
12.5°	689.5	692.3	711.5	720.0	724.6
15°	681.0	686.6	711.5	724.6	729.4
17.5°	670.5	680.0	709.5	725.6	732.3
20°	658.2	672.5	706.6	725.6	734.3
22.5°	644.9	663.1	702.8	723.8	734.3
25°	630.8	651.5	697.1	721.8	733.3
27.5°	613.6	640.2	690.5	718.9	732.3
30°	596.4	626.9	682.8	715.1	729.4
32.5°	577.5	612.6	673.3	709.5	725.6
35°	557.5	598.5	663.1	703.8	721.0
37.5°	537.5	581.3	652.6	696.1	715.1
40°	515.7	564.1	640.2	686.6	706.6
42.5°	499.5	546.2	626.9	677.2	698.2
45°	469.3	532.9	611.5	664.9	687.7
47.5°	445.5	507.2	596.4	652.6	676.1
50°	430.3	486.2	578.5	638.2	663.1
52.5°	394.2	472.1	561.3	624.1	650.5
55°	379.8	443.7	542.3	608.7	635.4
57.5°	340.9	423.7	523.4	591.8	619.2
60°	321.9	396.0	502.4	574.6	603.1
62.5°	292.4	372.4	481.6	555.7	585.1
65°	260.1	346.8	458.8	537.5	568.0
67.5°	229.9	321.2	437.0	518.5	550.8
70°	200.4	294.5	414.2	499.5	531.8
72.5°	166.1	267.8	392.1	481.6	513.9
75°	136.9	242.2	371.4	462.6	494.9
77.5°	108.2	217.6	351.4	445.5	477.8
80°	81.8	193.8	331.4	427.5	460.6
82.5°	56.9	173.8	313.5	410.3	442.6
85°	35.1	155.8	296.3	392.1	425.5
87.5°	16.1	139.7	279.1	375.2	409.3
90°	1.8	127.4	265.0	360.9	394.2
92.5°	1.0	123.5	259.4	354.2	386.5
95°	0.0	119.7	256.6	350.4	382.7
97.5°	0.0	115.8	249.9	344.7	378.0
100°	0.0	114.1	245.0	336.3	368.6
102.5°	0.0	111.2	239.4	328.6	360.9
105°	0.0	110.2	233.8	321.9	353.4
107.5°	0.0	108.2	227.9	313.5	344.7
110°	0.0	106.4	223.2	305.8	336.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	104.6	218.4	298.3	327.6
115°	0.0	102.5	212.7	289.6	318.1
117.5°	0.0	99.7	207.1	281.2	309.6
120°	0.0	95.9	201.5	273.5	300.1
122.5°	0.0	92.0	195.6	264.0	289.6
125°	0.0	88.4	188.9	255.5	280.1
127.5°	0.0	82.5	181.5	246.1	268.9
130°	0.0	76.9	172.0	236.6	258.4
132.5°	1.0	71.3	162.5	226.1	247.8
135°	0.0	65.6	152.0	215.6	235.5
137.5°	0.0	60.7	140.5	204.3	223.2
140°	0.0	55.1	129.2	190.9	210.9
142.5°	0.0	48.4	117.9	176.6	197.6
145°	0.0	42.8	106.4	161.5	184.3
147.5°	1.0	37.9	95.9	145.3	169.9
150°	1.0	34.1	85.6	129.2	153.8
152.5°	1.0	30.5	75.1	114.1	137.6
155°	1.0	26.7	65.6	98.7	122.5
157.5°	1.0	22.8	55.1	83.6	106.4
160°	1.0	20.0	45.6	70.2	91.2
162.5°	1.0	17.2	37.2	55.1	75.1
165°	1.0	14.4	29.5	40.8	57.9
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)