

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: P284741

Luminaire Tested: **4SNLED-LD5-48SL-SLW-UNV-L950-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: P284741
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-L950-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: 4411.0 lumens
Efficiency: N/A
Efficacy: 95.9 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

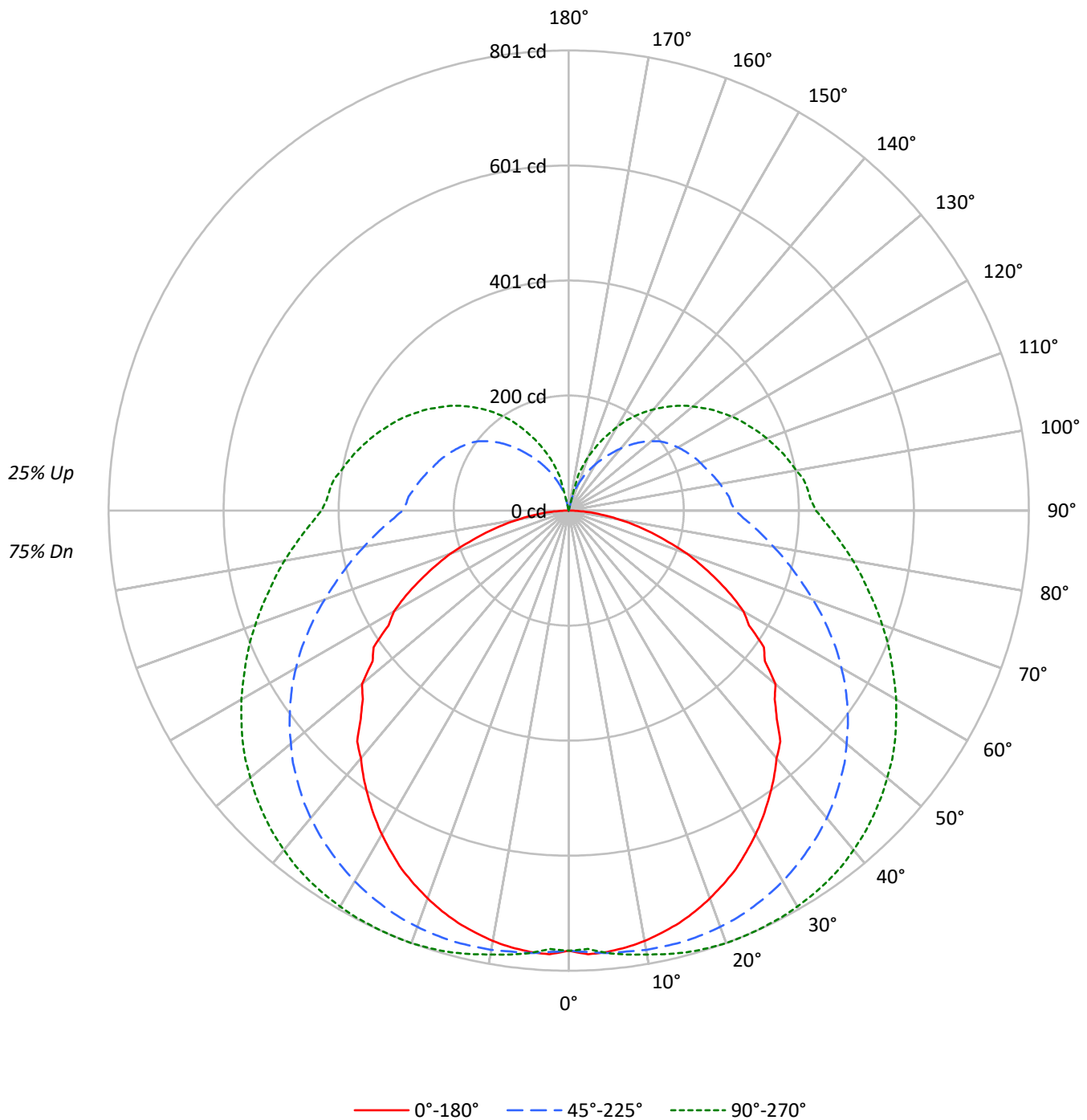
Input Watts (W): 46
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284741

CATALOG NUMBER: 4SNLED-LD5-48SL-SLW-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284741

CATALOG NUMBER: 4SNLED-LD5-48SL-SLW-UNV-L950-CD1-U

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°	6191	6191	6191
5°	6238	6117	6072
10°	6209	6064	6038
15°	6166	6032	6051
20°	6108	6003	6063
25°	6049	5982	6072
30°	5966	5963	6105
35°	5873	5942	6146
40°	5785	5938	6186
45°	5675	5924	6235
50°	5692	5911	6285
55°	5590	5912	6360
60°	5386	5915	6446
65°	5088	5922	6566
70°	4759	5966	6751
75°	4177	6104	7024
80°	3526	6399	7475
85°	2617	6993	8137



TEST NUMBER: P284741

CATALOG NUMBER: 4SNLED-LD5-48SL-SLW-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	1.7
10°-20°	218.2	4.9
20°-30°	346.8	7.9
30°-40°	445.1	10.1
40°-50°	502.6	11.4
50°-60°	512.9	11.6
60°-70°	475.1	10.8
70°-80°	402.3	9.1
80°-90°	321.1	7.3
90°-100°	272.7	6.2
100°-110°	242.9	5.5
110°-120°	206.9	4.7
120°-130°	164.3	3.7
130°-140°	116.6	2.6
140°-150°	69.6	1.6
150°-160°	32.5	0.7
160°-170°	7.7	0.2
170°-180°	0.0	0.0
0°-30°	638.6	14.5
0°-40°	1083.7	24.6
0°-60°	2099.3	47.6
0°-90°	3297.8	74.8
90°-120°	722.5	16.4
90°-150°	1073.1	24.3
90°-180°	1113.0	25.2
0°-180°	4411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	771	765	773	773	773	73
15°	743	749	776	791	796	210
25°	688	711	761	788	800	317
35°	608	653	724	768	787	381
45°	512	582	667	726	750	398
55°	414	484	592	664	693	364
65°	284	378	501	586	620	282
75°	149	264	405	505	540	159
85°	38	170	323	428	464	42
90°	2	139	289	394	430	3
95°	0	131	280	382	418	0
105°	0	120	255	351	386	0
115°	0	112	232	316	347	0
125°	0	96	206	279	306	0
135°	0	72	166	235	257	0
145°	0	47	116	176	201	0
155°	1	29	72	108	134	1
165°	1	16	32	44	63	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284741

CATALOG NUMBER: 4SNLED-LD5-48SL-SLW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.1	766.1	766.1	766.1	766.1
2.5°	773.1	765.0	769.2	768.1	763.9
5°	771.1	765.0	773.1	773.1	773.1
7.5°	766.9	762.8	774.2	778.4	779.5
10°	760.8	760.8	776.5	782.6	784.6
12.5°	752.4	755.5	776.5	785.7	790.7
15°	743.2	749.3	776.5	790.7	796.0
17.5°	731.7	742.1	774.2	791.8	799.1
20°	718.3	733.9	771.1	791.8	801.4
22.5°	703.7	723.6	766.9	789.9	801.4
25°	688.3	711.0	760.8	787.6	800.2
27.5°	669.6	698.7	753.5	784.6	799.1
30°	650.9	684.2	745.1	780.4	796.0
32.5°	630.2	668.5	734.8	774.2	791.8
35°	608.4	653.1	723.6	768.1	786.8
37.5°	586.5	634.4	712.1	759.7	780.4
40°	562.8	615.6	698.7	749.3	771.1
42.5°	545.1	596.0	684.2	739.0	761.9
45°	512.1	581.5	667.4	725.6	750.4
47.5°	486.1	553.5	650.9	712.1	737.9
50°	469.6	530.6	631.3	696.5	723.6
52.5°	430.2	515.2	612.6	681.1	709.9
55°	414.5	484.2	591.9	664.3	693.4
57.5°	372.0	462.3	571.2	645.8	675.8
60°	351.3	432.1	548.2	627.1	658.1
62.5°	319.1	406.4	525.6	606.4	638.6
65°	283.9	378.4	500.7	586.5	619.8
67.5°	250.9	350.5	476.9	565.8	601.1
70°	218.7	321.4	452.0	545.1	580.4
72.5°	181.2	292.3	427.9	525.6	560.8
75°	149.4	264.3	405.3	504.9	540.1
77.5°	118.0	237.5	383.5	486.1	521.4
80°	89.2	211.5	361.7	466.5	502.6
82.5°	62.1	189.6	342.1	447.8	483.0
85°	38.3	170.1	323.3	427.9	464.3
87.5°	17.6	152.4	304.6	409.5	446.7
90°	2.0	139.0	289.2	393.8	430.2
92.5°	1.1	134.8	283.1	386.6	421.8
95°	0.0	130.6	280.0	382.4	417.6
97.5°	0.0	126.4	272.7	376.2	412.6
100°	0.0	124.5	267.4	367.0	402.2
102.5°	0.0	121.4	261.2	358.6	393.8
105°	0.0	120.3	255.1	351.3	385.7
107.5°	0.0	118.0	248.7	342.1	376.2
110°	0.0	116.1	243.6	333.7	367.0



TEST NUMBER: P284741

CATALOG NUMBER: 4SNLED-LD5-48SL-SLW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	114.1	238.3	325.6	357.5
115°	0.0	111.9	232.2	316.1	347.1
117.5°	0.0	108.8	226.0	306.8	337.9
120°	0.0	104.6	219.8	298.4	327.5
122.5°	0.0	100.4	213.4	288.1	316.1
125°	0.0	96.5	206.1	278.9	305.7
127.5°	0.0	90.1	198.0	268.5	293.4
130°	0.0	83.9	187.7	258.2	281.9
132.5°	1.1	77.8	177.3	246.7	270.5
135°	0.0	71.6	165.9	235.2	257.0
137.5°	0.0	66.3	153.3	222.9	243.6
140°	0.0	60.1	141.0	208.4	230.2
142.5°	0.0	52.9	128.7	192.7	215.7
145°	0.0	46.7	116.1	176.2	201.1
147.5°	1.1	41.4	104.6	158.6	185.4
150°	1.1	37.2	93.4	141.0	167.8
152.5°	1.1	33.3	82.0	124.5	150.2
155°	1.1	29.1	71.6	107.7	133.7
157.5°	1.1	24.9	60.1	91.2	116.1
160°	1.1	21.8	49.8	76.6	99.6
162.5°	1.1	18.7	40.6	60.1	82.0
165°	1.1	15.7	32.2	44.5	63.2
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)