

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: P284479

Luminaire Tested: **8SNLED-LD5-50SL-SLW-UNV-L830-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: P284479
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: 8SNLED-LD5-50SL-SLW-UNV-L830-CD1-U
Description: 8FT 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: 4951.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

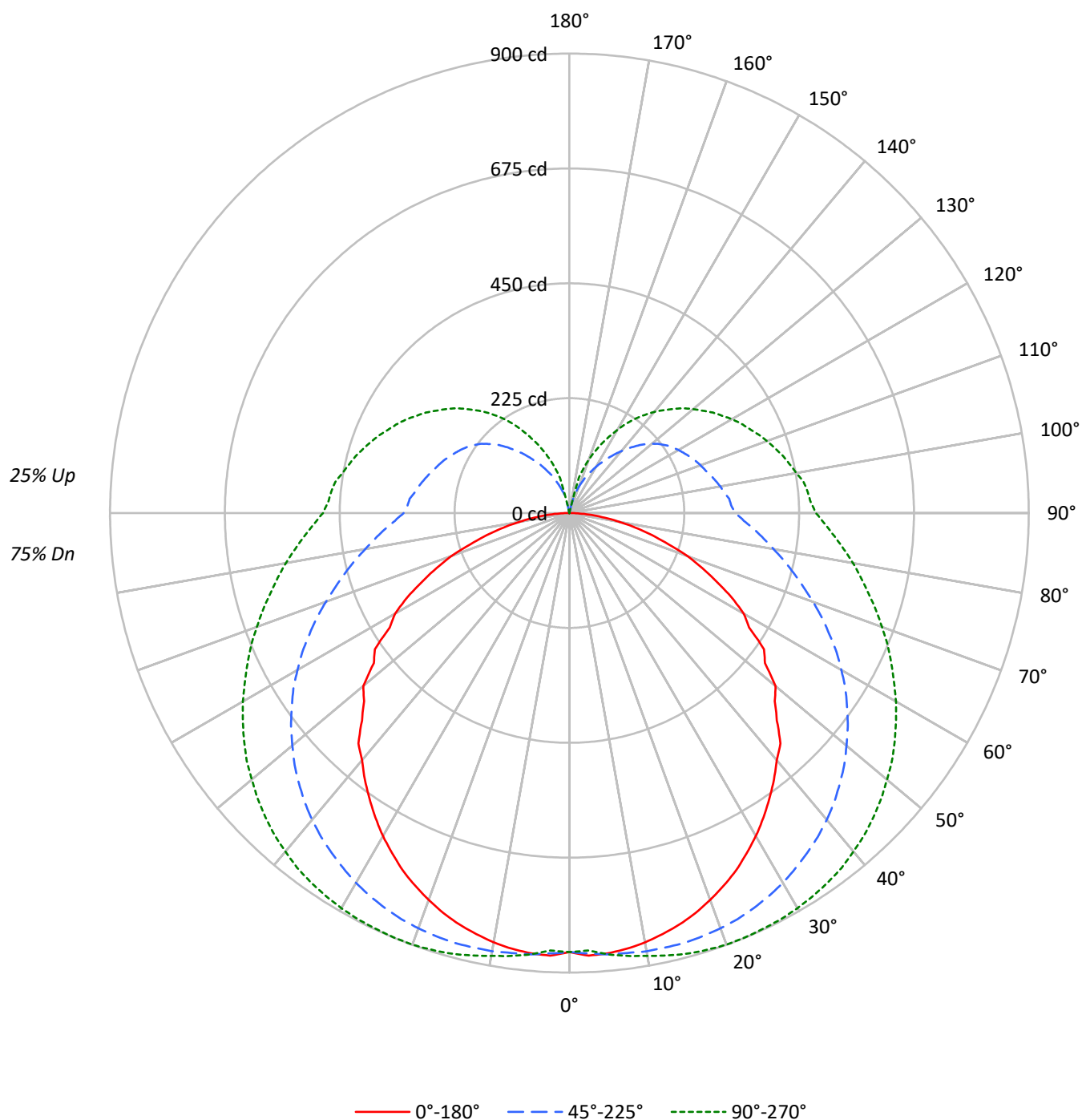
Input Watts (W): 42
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284479

CATALOG NUMBER: 8SNLED-LD5-50SL-SLW-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284479

CATALOG NUMBER: 8SNLED-LD5-50SL-SLW-UNV-L830-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
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°	3474	3474	3474
5°	3506	3436	3407
10°	3494	3409	3389
15°	3475	3394	3396
20°	3447	3381	3403
25°	3419	3372	3408
30°	3378	3365	3426
35°	3331	3356	3449
40°	3289	3357	3472
45°	3234	3353	3499
50°	3253	3350	3527
55°	3206	3355	3569
60°	3102	3362	3617
65°	2948	3373	3685
70°	2781	3406	3788
75°	2472	3495	3942
80°	2140	3678	4196
85°	1691	4044	4566



TEST NUMBER: P284479

CATALOG NUMBER: 8SNLED-LD5-50SL-SLW-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	1.7
10°-20°	244.9	4.9
20°-30°	389.3	7.9
30°-40°	499.6	10.1
40°-50°	564.2	11.4
50°-60°	575.7	11.6
60°-70°	533.3	10.8
70°-80°	451.5	9.1
80°-90°	360.4	7.3
90°-100°	306.1	6.2
100°-110°	272.7	5.5
110°-120°	232.2	4.7
120°-130°	184.5	3.7
130°-140°	130.9	2.6
140°-150°	78.1	1.6
150°-160°	36.4	0.7
160°-170°	8.7	0.2
170°-180°	0.0	0.0
0°-30°	716.8	14.5
0°-40°	1216.4	24.6
0°-60°	2356.2	47.6
0°-90°	3701.5	74.8
90°-120°	811.0	16.4
90°-150°	1204.4	24.3
90°-180°	1250.0	25.2
0°-180°	4951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	866	859	868	868	868	82
15°	834	841	872	888	894	235
25°	773	798	854	884	898	356
35°	683	733	812	862	883	427
45°	575	653	749	814	842	446
55°	465	543	664	746	778	408
65°	319	425	562	658	696	316
75°	168	297	455	567	606	178
85°	43	191	363	480	521	47
90°	2	156	325	442	483	3
95°	0	147	314	429	469	0
105°	0	135	286	394	433	0
115°	0	126	261	355	390	0
125°	0	108	231	313	343	0
135°	0	80	186	264	288	0
145°	0	52	130	198	226	1
155°	1	33	80	121	150	1
165°	1	18	36	50	71	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284479

CATALOG NUMBER: 8SNLED-LD5-50SL-SLW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	859.9	859.9	859.9	859.9	859.9
2.5°	867.7	858.6	863.3	862.1	857.4
5°	865.5	858.6	867.7	867.7	867.7
7.5°	860.8	856.1	869.0	873.7	875.0
10°	853.9	853.9	871.5	878.4	880.6
12.5°	844.5	848.0	871.5	881.9	887.5
15°	834.2	841.1	871.5	887.5	893.5
17.5°	821.3	832.9	869.0	888.8	896.9
20°	806.2	823.8	865.5	888.8	899.5
22.5°	789.9	812.2	860.8	886.6	899.5
25°	772.6	798.0	853.9	884.1	898.2
27.5°	751.6	784.2	845.8	880.6	896.9
30°	730.5	767.9	836.3	875.9	893.5
32.5°	707.3	750.3	824.7	869.0	888.8
35°	682.8	733.1	812.2	862.1	883.1
37.5°	658.3	712.0	799.3	852.7	875.9
40°	631.7	691.0	784.2	841.1	865.5
42.5°	611.9	669.0	767.9	829.4	855.2
45°	574.8	652.7	749.1	814.4	842.3
47.5°	545.6	621.3	730.5	799.3	828.2
50°	527.1	595.6	708.6	781.7	812.2
52.5°	482.8	578.3	687.5	764.5	796.8
55°	465.3	543.4	664.3	745.6	778.3
57.5°	417.5	519.0	641.1	724.9	758.5
60°	394.3	485.0	615.3	703.9	738.7
62.5°	358.2	456.2	589.9	680.6	716.7
65°	318.7	424.8	562.0	658.3	695.7
67.5°	281.6	393.4	535.3	635.1	674.7
70°	245.5	360.7	507.3	611.9	651.4
72.5°	203.4	328.1	480.3	589.9	629.5
75°	167.6	296.7	454.9	566.7	606.2
77.5°	132.5	266.5	430.4	545.6	585.2
80°	100.1	237.3	405.9	523.7	564.2
82.5°	69.7	212.9	384.0	502.6	542.2
85°	43.0	190.9	362.9	480.3	521.1
87.5°	19.8	171.1	341.9	459.6	501.4
90°	2.2	156.0	324.6	442.0	482.8
92.5°	1.3	151.3	317.7	433.9	473.4
95°	0.0	146.6	314.3	429.2	468.7
97.5°	0.0	141.9	306.1	422.3	463.1
100°	0.0	139.7	300.1	411.9	451.5
102.5°	0.0	136.3	293.2	402.5	442.0
105°	0.0	135.0	286.3	394.3	432.9
107.5°	0.0	132.5	279.1	384.0	422.3
110°	0.0	130.3	273.4	374.5	411.9



TEST NUMBER: P284479

CATALOG NUMBER: 8SNLED-LD5-50SL-SLW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	128.1	267.5	365.4	401.2
115°	0.0	125.6	260.6	354.8	389.6
117.5°	0.0	122.1	253.7	344.4	379.2
120°	0.0	117.4	246.8	335.0	367.6
122.5°	0.0	112.7	239.5	323.4	354.8
125°	0.0	108.3	231.4	313.0	343.1
127.5°	0.0	101.1	222.3	301.4	329.3
130°	0.0	94.2	210.7	289.8	316.5
132.5°	1.3	87.3	199.0	276.9	303.6
135°	0.0	80.4	186.2	264.0	288.5
137.5°	0.0	74.4	172.0	250.2	273.4
140°	0.0	67.5	158.2	233.9	258.4
142.5°	0.0	59.3	144.4	216.3	242.1
145°	0.0	52.4	130.3	197.8	225.7
147.5°	1.3	46.5	117.4	178.0	208.1
150°	1.3	41.8	104.9	158.2	188.4
152.5°	1.3	37.4	92.0	139.7	168.6
155°	1.3	32.7	80.4	120.9	150.1
157.5°	1.3	27.9	67.5	102.3	130.3
160°	1.3	24.5	55.9	86.0	111.8
162.5°	1.3	21.0	45.5	67.5	92.0
165°	1.3	17.6	36.1	49.9	71.0
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)