

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: P284518

Luminaire Tested: **8SNLED-LD5-50SL-SLW-UNV-L835-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: P284518
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-L835-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: 5037.0 lumens
Efficiency: N/A
Efficacy: 119.9 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

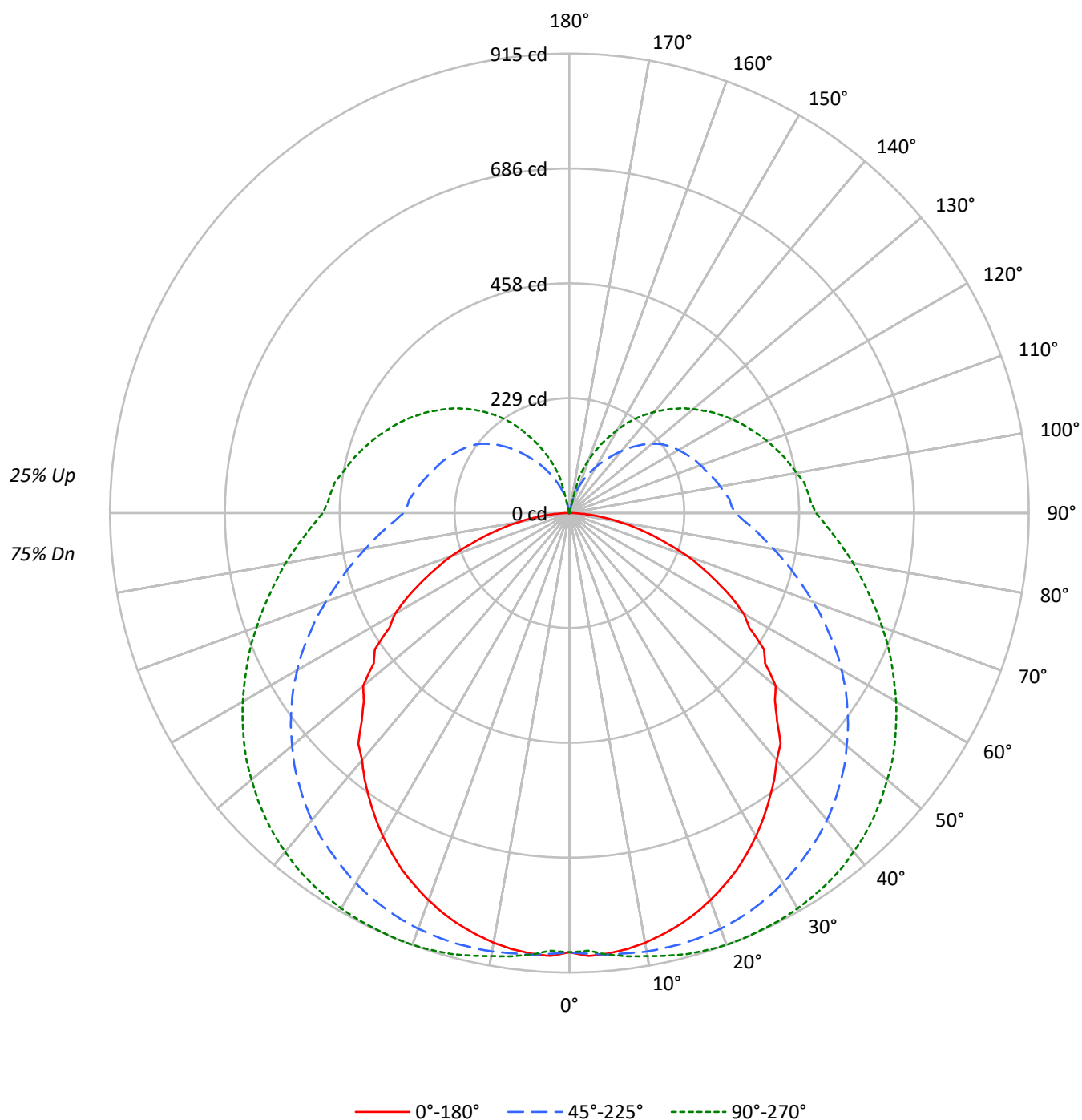
Input Watts (W): 42
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284518

CATALOG NUMBER: 8SNLED-LD5-50SL-SLW-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284518

CATALOG NUMBER: 8SNLED-LD5-50SL-SLW-UNV-L835-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°	3535	3535	3535
5°	3567	3496	3467
10°	3555	3468	3448
15°	3535	3453	3455
20°	3507	3440	3462
25°	3479	3431	3467
30°	3436	3423	3486
35°	3390	3415	3509
40°	3346	3416	3532
45°	3290	3412	3560
50°	3310	3408	3589
55°	3261	3413	3631
60°	3157	3421	3680
65°	2999	3431	3749
70°	2830	3465	3855
75°	2517	3556	4011
80°	2178	3742	4269
85°	1723	4114	4646



TEST NUMBER: P284518

CATALOG NUMBER: 8SNLED-LD5-50SL-SLW-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	1.7
10°-20°	249.2	4.9
20°-30°	396.0	7.9
30°-40°	508.3	10.1
40°-50°	574.0	11.4
50°-60°	585.7	11.6
60°-70°	542.6	10.8
70°-80°	459.4	9.1
80°-90°	366.7	7.3
90°-100°	311.4	6.2
100°-110°	277.4	5.5
110°-120°	236.3	4.7
120°-130°	187.6	3.7
130°-140°	133.1	2.6
140°-150°	79.5	1.6
150°-160°	37.1	0.7
160°-170°	8.8	0.2
170°-180°	0.0	0.0
0°-30°	729.3	14.5
0°-40°	1237.6	24.6
0°-60°	2397.2	47.6
0°-90°	3765.8	74.8
90°-120°	825.0	16.4
90°-150°	1225.3	24.3
90°-180°	1271.0	25.2
0°-180°	5037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	881	874	883	883	883	84
15°	849	856	887	903	909	239
25°	786	812	869	899	914	362
35°	695	746	826	877	898	435
45°	585	664	762	828	857	454
55°	473	553	676	759	792	416
65°	324	432	572	670	708	322
75°	171	302	463	576	617	181
85°	44	194	369	489	530	48
90°	2	159	330	450	491	4
95°	0	149	320	437	477	0
105°	0	137	291	401	440	0
115°	0	128	265	361	396	0
125°	0	110	235	318	349	0
135°	0	82	189	269	294	0
145°	0	53	133	201	230	1
155°	1	33	82	123	153	1
165°	1	18	37	51	72	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284518

CATALOG NUMBER: 8SNLED-LD5-50SL-SLW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	874.8	874.8	874.8	874.8	874.8
2.5°	882.8	873.6	878.3	877.1	872.3
5°	880.6	873.6	882.8	882.8	882.8
7.5°	875.8	871.0	884.1	888.9	890.2
10°	868.8	868.8	886.6	893.7	895.9
12.5°	859.2	862.7	886.6	897.2	902.9
15°	848.6	855.7	886.6	902.9	909.0
17.5°	835.5	847.4	884.1	904.2	912.5
20°	820.2	838.1	880.6	904.2	915.1
22.5°	803.6	826.3	875.8	902.0	915.1
25°	786.0	811.9	868.8	899.4	913.8
27.5°	764.6	797.9	860.5	895.9	912.5
30°	743.2	781.2	850.9	891.1	909.0
32.5°	719.6	763.4	839.1	884.1	904.2
35°	694.7	745.8	826.3	877.1	898.5
37.5°	669.8	724.4	813.2	867.5	891.1
40°	642.6	703.0	797.9	855.7	880.6
42.5°	622.5	680.6	781.2	843.9	870.0
45°	584.8	664.0	762.1	828.5	856.9
47.5°	555.1	632.1	743.2	813.2	842.6
50°	536.3	605.9	720.9	795.3	826.3
52.5°	491.2	588.3	699.5	777.7	810.6
55°	473.3	552.9	675.8	758.6	791.8
57.5°	424.8	528.0	652.2	737.5	771.7
60°	401.2	493.5	626.0	716.1	751.5
62.5°	364.4	464.1	600.1	692.5	729.2
65°	324.2	432.1	571.7	669.8	707.8
67.5°	286.5	400.2	544.6	646.1	686.4
70°	249.8	367.0	516.1	622.5	662.8
72.5°	207.0	333.8	488.7	600.1	640.4
75°	170.6	301.8	462.8	576.5	616.8
77.5°	134.8	271.2	437.9	555.1	595.4
80°	101.9	241.5	413.0	532.8	574.0
82.5°	70.9	216.6	390.6	511.4	551.6
85°	43.8	194.2	369.2	488.7	530.2
87.5°	20.1	174.1	347.8	467.6	510.1
90°	2.2	158.7	330.3	449.7	491.2
92.5°	1.3	153.9	323.2	441.4	481.7
95°	0.0	149.2	319.7	436.6	476.9
97.5°	0.0	144.4	311.4	429.6	471.1
100°	0.0	142.1	305.3	419.1	459.3
102.5°	0.0	138.6	298.3	409.5	449.7
105°	0.0	137.3	291.3	401.2	440.5
107.5°	0.0	134.8	283.9	390.6	429.6
110°	0.0	132.6	278.2	381.0	419.1



TEST NUMBER: P284518

CATALOG NUMBER: 8SNLED-LD5-50SL-SLW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	130.3	272.1	371.8	408.2
115°	0.0	127.8	265.1	360.9	396.4
117.5°	0.0	124.2	258.1	350.4	385.8
120°	0.0	119.5	251.0	340.8	374.0
122.5°	0.0	114.7	243.7	329.0	360.9
125°	0.0	110.2	235.4	318.4	349.1
127.5°	0.0	102.8	226.1	306.6	335.0
130°	0.0	95.8	214.3	294.8	322.0
132.5°	1.3	88.8	202.5	281.7	308.9
135°	0.0	81.8	189.4	268.6	293.5
137.5°	0.0	75.7	175.0	254.6	278.2
140°	0.0	68.7	161.0	238.0	262.9
142.5°	0.0	60.4	146.9	220.1	246.3
145°	0.0	53.3	132.6	201.2	229.6
147.5°	1.3	47.3	119.5	181.1	211.8
150°	1.3	42.5	106.7	161.0	191.6
152.5°	1.3	38.0	93.6	142.1	171.5
155°	1.3	33.2	81.8	123.0	152.7
157.5°	1.3	28.4	68.7	104.1	132.6
160°	1.3	24.9	56.9	87.5	113.7
162.5°	1.3	21.4	46.3	68.7	93.6
165°	1.3	17.9	36.7	50.8	72.2
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)