

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: P284752

Luminaire Tested: **8SNLED-LD5-50SL-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: P284752
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-L950-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: 4617.0 lumens
Efficiency: N/A
Efficacy: 109.9 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

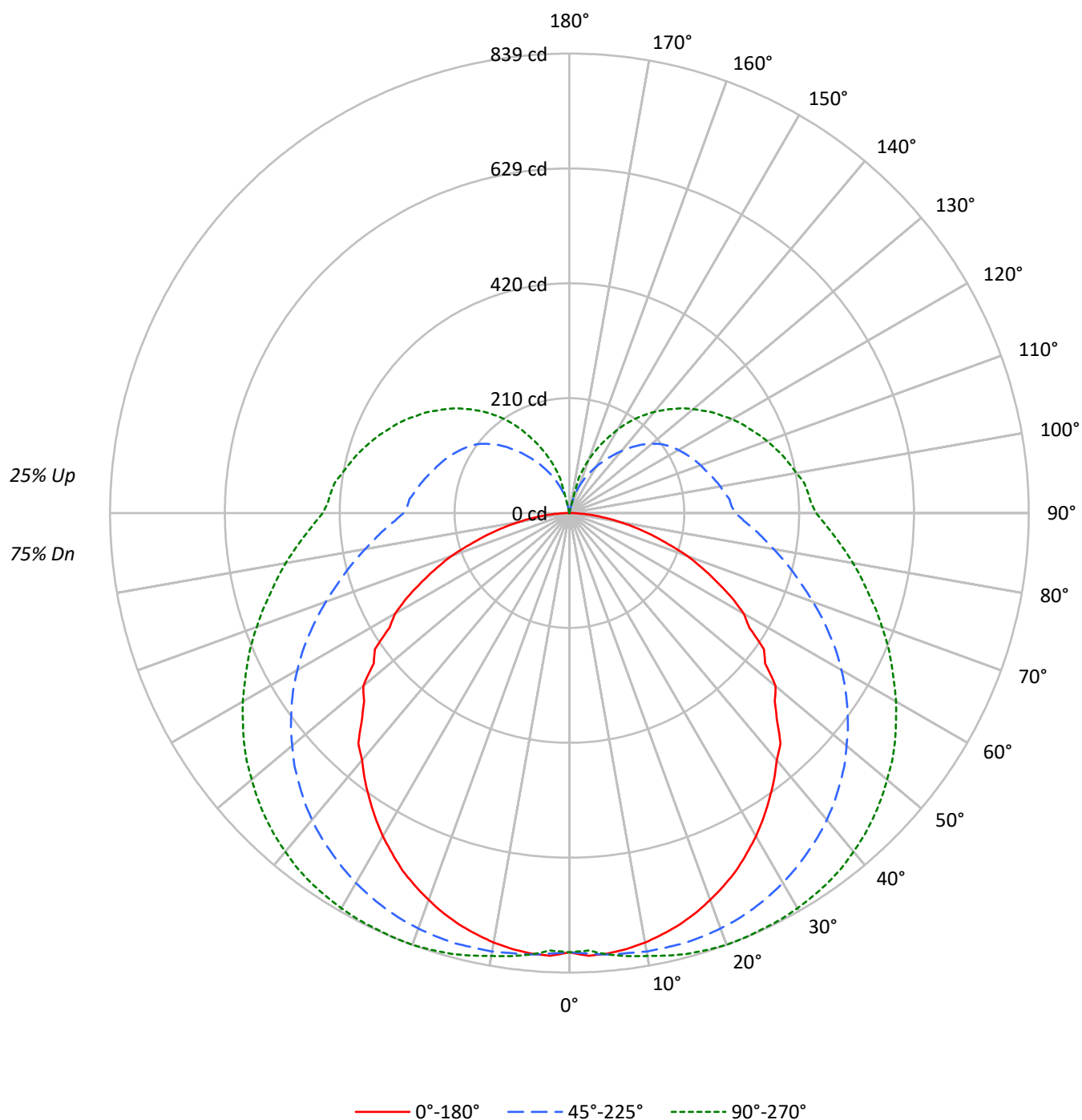
Input Watts (W): 42
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	3240	3240	3240
5°	3269	3205	3178
10°	3258	3179	3160
15°	3240	3165	3167
20°	3214	3153	3173
25°	3189	3145	3178
30°	3150	3138	3195
35°	3107	3130	3217
40°	3066	3131	3238
45°	3016	3127	3263
50°	3034	3124	3289
55°	2990	3129	3328
60°	2893	3135	3374
65°	2749	3146	3437
70°	2593	3176	3533
75°	2306	3259	3676
80°	1996	3430	3912
85°	1577	3771	4259



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	1.7
10°-20°	228.4	4.9
20°-30°	363.0	7.9
30°-40°	465.9	10.1
40°-50°	526.1	11.4
50°-60°	536.8	11.6
60°-70°	497.3	10.8
70°-80°	421.0	9.1
80°-90°	336.1	7.3
90°-100°	285.4	6.2
100°-110°	254.3	5.5
110°-120°	216.6	4.7
120°-130°	172.0	3.7
130°-140°	122.0	2.6
140°-150°	72.9	1.6
150°-160°	34.0	0.7
160°-170°	8.1	0.2
170°-180°	0.0	0.0
0°-30°	668.5	14.5
0°-40°	1134.4	24.6
0°-60°	2197.3	47.6
0°-90°	3451.8	74.8
90°-120°	756.3	16.4
90°-150°	1123.1	24.3
90°-180°	1165.0	25.2
0°-180°	4617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	807	801	809	809	809	77
15°	778	784	813	828	833	219
25°	720	744	796	824	838	332
35°	637	684	757	804	824	399
45°	536	609	698	759	786	416
55°	434	507	620	695	726	381
65°	297	396	524	614	649	295
75°	156	277	424	528	565	166
85°	40	178	338	448	486	44
90°	2	146	303	412	450	3
95°	0	137	293	400	437	0
105°	0	126	267	368	404	0
115°	0	117	243	331	363	0
125°	0	101	216	292	320	0
135°	0	75	174	246	269	0
145°	0	49	122	184	210	0
155°	1	30	75	113	140	1
165°	1	16	34	46	66	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°	801.9	801.9	801.9	801.9	801.9
2.5°	809.2	800.7	805.1	803.9	799.5
5°	807.2	800.7	809.2	809.2	809.2
7.5°	802.8	798.4	810.4	814.8	815.9
10°	796.3	796.3	812.7	819.2	821.2
12.5°	787.5	790.8	812.7	822.4	827.6
15°	777.9	784.3	812.7	827.6	833.2
17.5°	765.9	776.7	810.4	828.8	836.4
20°	751.8	768.2	807.2	828.8	838.8
22.5°	736.6	757.4	802.8	826.8	838.8
25°	720.5	744.2	796.3	824.4	837.6
27.5°	700.9	731.3	788.7	821.2	836.4
30°	681.3	716.1	779.9	816.8	833.2
32.5°	659.6	699.7	769.1	810.4	828.8
35°	636.8	683.6	757.4	803.9	823.6
37.5°	613.9	664.0	745.4	795.2	816.8
40°	589.0	644.4	731.3	784.3	807.2
42.5°	570.6	623.9	716.1	773.5	797.5
45°	536.1	608.7	698.5	759.4	785.5
47.5°	508.8	579.4	681.3	745.4	772.3
50°	491.6	555.4	660.8	729.0	757.4
52.5°	450.3	539.3	641.2	712.9	743.0
55°	433.9	506.8	619.5	695.3	725.8
57.5°	389.4	483.9	597.8	676.0	707.3
60°	367.7	452.3	573.8	656.4	688.9
62.5°	334.0	425.4	550.1	634.7	668.4
65°	297.2	396.1	524.1	613.9	648.8
67.5°	262.6	366.8	499.2	592.3	629.2
70°	228.9	336.4	473.1	570.6	607.5
72.5°	189.7	305.9	447.9	550.1	587.0
75°	156.3	276.7	424.2	528.4	565.3
77.5°	123.5	248.6	401.4	508.8	545.7
80°	93.4	221.3	378.5	488.3	526.1
82.5°	65.0	198.5	358.1	468.7	505.6
85°	40.1	178.0	338.4	447.9	486.0
87.5°	18.4	159.6	318.8	428.6	467.5
90°	2.0	145.5	302.7	412.2	450.3
92.5°	1.2	141.1	296.3	404.6	441.5
95°	0.0	136.7	293.1	400.2	437.1
97.5°	0.0	132.3	285.4	393.8	431.8
100°	0.0	130.3	279.9	384.1	421.0
102.5°	0.0	127.1	273.4	375.3	412.2
105°	0.0	125.9	267.0	367.7	403.7
107.5°	0.0	123.5	260.3	358.1	393.8
110°	0.0	121.5	255.0	349.3	384.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	119.4	249.4	340.8	374.2
115°	0.0	117.1	243.0	330.8	363.3
117.5°	0.0	113.9	236.6	321.2	353.7
120°	0.0	109.5	230.1	312.4	342.8
122.5°	0.0	105.1	223.4	301.5	330.8
125°	0.0	101.0	215.8	291.9	320.0
127.5°	0.0	94.3	207.3	281.1	307.1
130°	0.0	87.8	196.4	270.2	295.1
132.5°	1.2	81.4	185.6	258.2	283.1
135°	0.0	74.9	173.6	246.2	269.1
137.5°	0.0	69.4	160.4	233.3	255.0
140°	0.0	62.9	147.6	218.1	240.9
142.5°	0.0	55.3	134.7	201.7	225.7
145°	0.0	48.9	121.5	184.4	210.5
147.5°	1.2	43.3	109.5	166.0	194.1
150°	1.2	38.9	97.8	147.6	175.7
152.5°	1.2	34.8	85.8	130.3	157.2
155°	1.2	30.4	74.9	112.7	139.9
157.5°	1.2	26.1	62.9	95.4	121.5
160°	1.2	22.8	52.1	80.2	104.2
162.5°	1.2	19.6	42.5	62.9	85.8
165°	1.2	16.4	33.7	46.5	66.2
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)