

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: P284713

Luminaire Tested: **8SNLED-LD5-50SL-SLW-UNV-L940-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: P284713
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-L940-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: 4331.0 lumens
Efficiency: N/A
Efficacy: 103.1 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

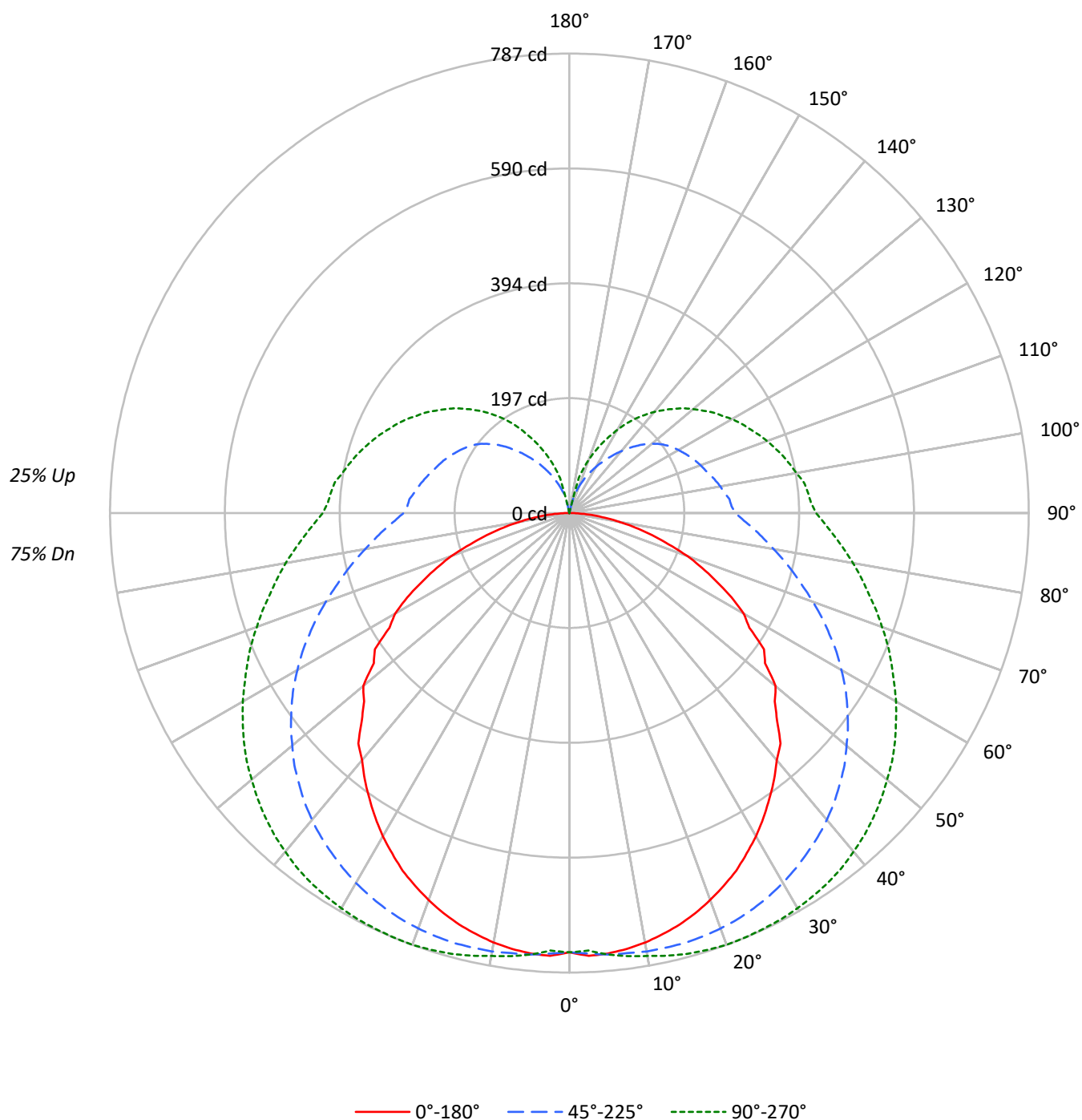
Input Watts (W): 42
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3039	3039	3039
5°	3067	3006	2981
10°	3056	2983	2964
15°	3040	2969	2971
20°	3016	2958	2976
25°	2992	2950	2981
30°	2955	2943	2997
35°	2914	2936	3017
40°	2877	2937	3037
45°	2829	2933	3061
50°	2845	2930	3086
55°	2804	2935	3122
60°	2714	2941	3164
65°	2578	2951	3224
70°	2433	2980	3314
75°	2164	3057	3448
80°	1872	3218	3670
85°	1479	3538	3995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	1.7
10°-20°	214.3	4.9
20°-30°	340.5	7.9
30°-40°	437.0	10.1
40°-50°	493.5	11.4
50°-60°	503.6	11.6
60°-70°	466.5	10.8
70°-80°	395.0	9.1
80°-90°	315.3	7.3
90°-100°	267.7	6.2
100°-110°	238.5	5.5
110°-120°	203.1	4.7
120°-130°	161.3	3.7
130°-140°	114.5	2.6
140°-150°	68.3	1.6
150°-160°	31.9	0.7
160°-170°	7.6	0.2
170°-180°	0.0	0.0
0°-30°	627.1	14.5
0°-40°	1064.1	24.6
0°-60°	2061.2	47.6
0°-90°	3238.0	74.8
90°-120°	709.4	16.4
90°-150°	1053.6	24.3
90°-180°	1093.0	25.2
0°-180°	4331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	757	751	759	759	759	72
15°	730	736	762	776	782	206
25°	676	698	747	773	786	311
35°	597	641	710	754	772	374
45°	503	571	655	712	737	390
55°	407	475	581	652	681	357
65°	279	372	492	576	609	277
75°	147	260	398	496	530	156
85°	38	167	318	420	456	41
90°	2	136	284	387	422	3
95°	0	128	275	375	410	0
105°	0	118	250	345	379	0
115°	0	110	228	310	341	0
125°	0	95	202	274	300	0
135°	0	70	163	231	252	0
145°	0	46	114	173	198	0
155°	1	29	70	106	131	1
165°	1	15	32	44	62	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°	752.2	752.2	752.2	752.2	752.2
2.5°	759.1	751.1	755.2	754.1	750.0
5°	757.2	751.1	759.1	759.1	759.1
7.5°	753.0	748.9	760.2	764.3	765.4
10°	747.0	747.0	762.4	768.4	770.3
12.5°	738.8	741.8	762.4	771.4	776.4
15°	729.7	735.7	762.4	776.4	781.6
17.5°	718.4	728.6	760.2	777.5	784.6
20°	705.3	720.6	757.2	777.5	786.8
22.5°	691.0	710.5	753.0	775.6	786.8
25°	675.9	698.1	747.0	773.4	785.7
27.5°	657.5	686.0	739.9	770.3	784.6
30°	639.1	671.7	731.6	766.2	781.6
32.5°	618.7	656.4	721.5	760.2	777.5
35°	597.3	641.3	710.5	754.1	772.5
37.5°	575.9	622.9	699.2	745.9	766.2
40°	552.6	604.5	686.0	735.7	757.2
42.5°	535.3	585.2	671.7	725.6	748.1
45°	502.8	571.0	655.3	712.4	736.8
47.5°	477.3	543.5	639.1	699.2	724.5
50°	461.1	521.0	619.8	683.8	710.5
52.5°	422.4	505.9	601.4	668.7	697.0
55°	407.0	475.4	581.1	652.2	680.8
57.5°	365.3	454.0	560.8	634.1	663.5
60°	344.9	424.3	538.3	615.7	646.2
62.5°	313.4	399.0	516.0	595.4	627.0
65°	278.7	371.6	491.6	575.9	608.6
67.5°	246.3	344.1	468.2	555.6	590.2
70°	214.8	315.6	443.8	535.3	569.9
72.5°	178.0	287.0	420.2	516.0	550.6
75°	146.7	259.5	397.9	495.7	530.3
77.5°	115.9	233.2	376.5	477.3	511.9
80°	87.6	207.6	355.1	458.1	493.5
82.5°	61.0	186.2	335.9	439.7	474.3
85°	37.6	167.0	317.5	420.2	455.9
87.5°	17.3	149.7	299.1	402.1	438.6
90°	1.9	136.5	284.0	386.7	422.4
92.5°	1.1	132.4	277.9	379.5	414.1
95°	0.0	128.3	274.9	375.4	410.0
97.5°	0.0	124.1	267.8	369.4	405.1
100°	0.0	122.2	262.5	360.3	394.9
102.5°	0.0	119.2	256.5	352.1	386.7
105°	0.0	118.1	250.5	344.9	378.7
107.5°	0.0	115.9	244.1	335.9	369.4
110°	0.0	114.0	239.2	327.6	360.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	112.0	234.0	319.7	351.0
115°	0.0	109.9	227.9	310.3	340.8
117.5°	0.0	106.8	221.9	301.3	331.8
120°	0.0	102.7	215.9	293.0	321.6
122.5°	0.0	98.6	209.5	282.9	310.3
125°	0.0	94.7	202.4	273.8	300.2
127.5°	0.0	88.4	194.4	263.6	288.1
130°	0.0	82.4	184.3	253.5	276.8
132.5°	1.1	76.3	174.1	242.2	265.6
135°	0.0	70.3	162.9	231.0	252.4
137.5°	0.0	65.1	150.5	218.9	239.2
140°	0.0	59.0	138.4	204.6	226.0
142.5°	0.0	51.9	126.3	189.2	211.7
145°	0.0	45.9	114.0	173.0	197.5
147.5°	1.1	40.6	102.7	155.7	182.1
150°	1.1	36.5	91.7	138.4	164.8
152.5°	1.1	32.7	80.5	122.2	147.5
155°	1.1	28.6	70.3	105.7	131.3
157.5°	1.1	24.4	59.0	89.5	114.0
160°	1.1	21.4	48.9	75.2	97.8
162.5°	1.1	18.4	39.8	59.0	80.5
165°	1.1	15.4	31.6	43.7	62.1
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)