

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: P284635

Luminaire Tested: **8SNLED-LD5-50SL-SLW-UNV-L930-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: P284635
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-L930-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: 3986.0 lumens
Efficiency: N/A
Efficacy: 94.9 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

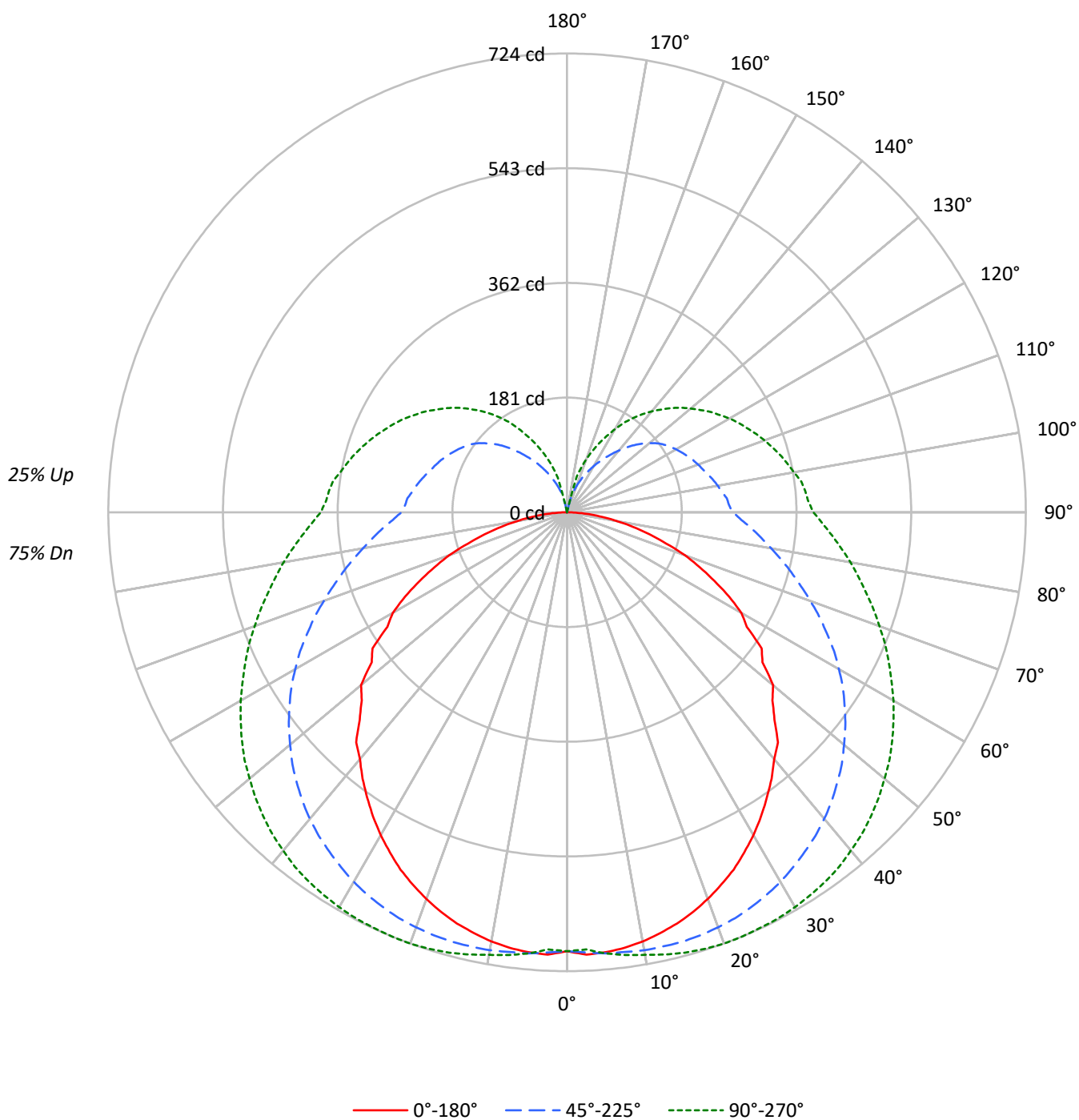
Input Watts (W): 42
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																					
0	113	113	113	113		107	107	107	107		97	97	97		88	88	88		79	79	79
1	100	94	89	84		95	89	84	80		80	76	73		72	69	66		64	62	60
2	90	80	72	66		85	76	69	63		68	63	58		61	57	53		55	51	48
3	81	69	60	53		76	66	58	51		59	53	47		53	48	43		47	43	39
4	74	61	51	44		69	58	49	43		52	45	39		47	41	36		42	37	33
5	67	54	44	37		63	51	43	36		46	39	33		42	35	31		37	32	28
6	62	48	39	32		58	46	37	31		41	34	29		37	31	27		34	28	24
7	57	43	34	28		54	41	33	27		37	30	25		34	28	23		30	25	21
8	53	39	31	25		50	37	29	24		34	27	22		31	25	21		28	23	19
9	49	36	27	22		47	34	26	21		31	24	20		28	23	18		26	21	17
10	46	33	25	20		44	31	24	19		29	22	18		26	21	16		24	19	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2797	2797	2797
5°	2822	2767	2743
10°	2813	2745	2728
15°	2798	2732	2734
20°	2775	2722	2739
25°	2753	2715	2744
30°	2720	2709	2758
35°	2682	2702	2777
40°	2647	2703	2795
45°	2604	2700	2817
50°	2619	2697	2840
55°	2581	2701	2874
60°	2498	2707	2912
65°	2373	2715	2967
70°	2239	2743	3050
75°	1991	2814	3174
80°	1723	2961	3378
85°	1361	3256	3677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	1.7
10°-20°	197.2	4.9
20°-30°	313.4	7.9
30°-40°	402.2	10.1
40°-50°	454.2	11.4
50°-60°	463.5	11.6
60°-70°	429.4	10.8
70°-80°	363.5	9.1
80°-90°	290.2	7.3
90°-100°	246.4	6.2
100°-110°	219.5	5.5
110°-120°	187.0	4.7
120°-130°	148.5	3.7
130°-140°	105.4	2.6
140°-150°	62.9	1.6
150°-160°	29.3	0.7
160°-170°	7.0	0.2
170°-180°	0.0	0.0
0°-30°	577.1	14.5
0°-40°	979.3	24.6
0°-60°	1897.0	47.6
0°-90°	2980.0	74.8
90°-120°	652.9	16.4
90°-150°	969.6	24.3
90°-180°	1006.0	25.2
0°-180°	3986.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	697	691	699	699	699	66
15°	672	677	702	714	719	189
25°	622	642	688	712	723	286
35°	550	590	654	694	711	344
45°	463	526	603	656	678	359
55°	375	438	535	600	627	329
65°	256	342	452	530	560	255
75°	135	239	366	456	488	144
85°	35	154	292	387	420	38
90°	2	126	261	356	389	3
95°	0	118	253	346	377	0
105°	0	109	230	318	348	0
115°	0	101	210	286	314	0
125°	0	87	186	252	276	0
135°	0	65	150	213	232	0
145°	0	42	105	159	182	0
155°	1	26	65	97	121	0
165°	1	14	29	40	57	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°	692.3	692.3	692.3	692.3	692.3
2.5°	698.6	691.3	695.1	694.1	690.3
5°	696.8	691.3	698.6	698.6	698.6
7.5°	693.1	689.3	699.6	703.4	704.4
10°	687.5	687.5	701.6	707.2	709.0
12.5°	679.9	682.7	701.6	710.0	714.5
15°	671.6	677.1	701.6	714.5	719.3
17.5°	661.2	670.6	699.6	715.5	722.1
20°	649.1	663.2	696.8	715.5	724.1
22.5°	635.9	653.9	693.1	713.8	724.1
25°	622.0	642.5	687.5	711.8	723.1
27.5°	605.1	631.4	680.9	709.0	722.1
30°	588.2	618.2	673.3	705.2	719.3
32.5°	569.5	604.1	664.0	699.6	715.5
35°	549.7	590.2	653.9	694.1	711.0
37.5°	530.0	573.2	643.5	686.5	705.2
40°	508.5	556.3	631.4	677.1	696.8
42.5°	492.6	538.6	618.2	667.8	688.5
45°	462.8	525.5	603.1	655.6	678.1
47.5°	439.3	500.2	588.2	643.5	666.8
50°	424.4	479.5	570.5	629.4	653.9
52.5°	388.7	465.6	553.5	615.5	641.5
55°	374.6	437.5	534.8	600.3	626.6
57.5°	336.2	417.8	516.1	583.6	610.7
60°	317.5	390.5	495.4	566.7	594.7
62.5°	288.4	367.3	474.9	548.0	577.0
65°	256.5	342.0	452.4	530.0	560.1
67.5°	226.7	316.7	430.9	511.3	543.2
70°	197.7	290.4	408.5	492.6	524.5
72.5°	163.8	264.1	386.7	474.9	506.8
75°	135.0	238.9	366.2	456.2	488.1
77.5°	106.7	214.6	346.5	439.3	471.1
80°	80.6	191.1	326.8	421.6	454.2
82.5°	56.1	171.4	309.1	404.7	436.5
85°	34.6	153.7	292.2	386.7	419.6
87.5°	15.9	137.8	275.2	370.0	403.6
90°	1.8	125.6	261.3	355.9	388.7
92.5°	1.0	121.8	255.8	349.3	381.2
95°	0.0	118.0	253.0	345.5	377.4
97.5°	0.0	114.2	246.4	340.0	372.8
100°	0.0	112.5	241.6	331.6	363.5
102.5°	0.0	109.7	236.1	324.0	355.9
105°	0.0	108.7	230.5	317.5	348.5
107.5°	0.0	106.7	224.7	309.1	340.0
110°	0.0	104.9	220.1	301.5	331.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	103.1	215.3	294.2	323.0
115°	0.0	101.1	209.8	285.6	313.7
117.5°	0.0	98.3	204.2	277.3	305.3
120°	0.0	94.5	198.7	269.7	296.0
122.5°	0.0	90.7	192.9	260.3	285.6
125°	0.0	87.2	186.3	252.0	276.3
127.5°	0.0	81.4	178.9	242.6	265.1
130°	0.0	75.8	169.6	233.3	254.8
132.5°	1.0	70.3	160.2	222.9	244.4
135°	0.0	64.7	149.9	212.6	232.3
137.5°	0.0	59.9	138.5	201.4	220.1
140°	0.0	54.3	127.4	188.3	208.0
142.5°	0.0	47.8	116.3	174.1	194.9
145°	0.0	42.2	104.9	159.2	181.7
147.5°	1.0	37.4	94.5	143.3	167.6
150°	1.0	33.6	84.4	127.4	151.7
152.5°	1.0	30.1	74.1	112.5	135.7
155°	1.0	26.3	64.7	97.3	120.8
157.5°	1.0	22.5	54.3	82.4	104.9
160°	1.0	19.7	45.0	69.3	90.0
162.5°	1.0	16.9	36.6	54.3	74.1
165°	1.0	14.2	29.1	40.2	57.1
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)