

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: P284674

Luminaire Tested: **8SNLED-LD5-50SL-SLW-UNV-L935-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: P284674
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-L935-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: 4231.0 lumens
Efficiency: N/A
Efficacy: 100.7 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

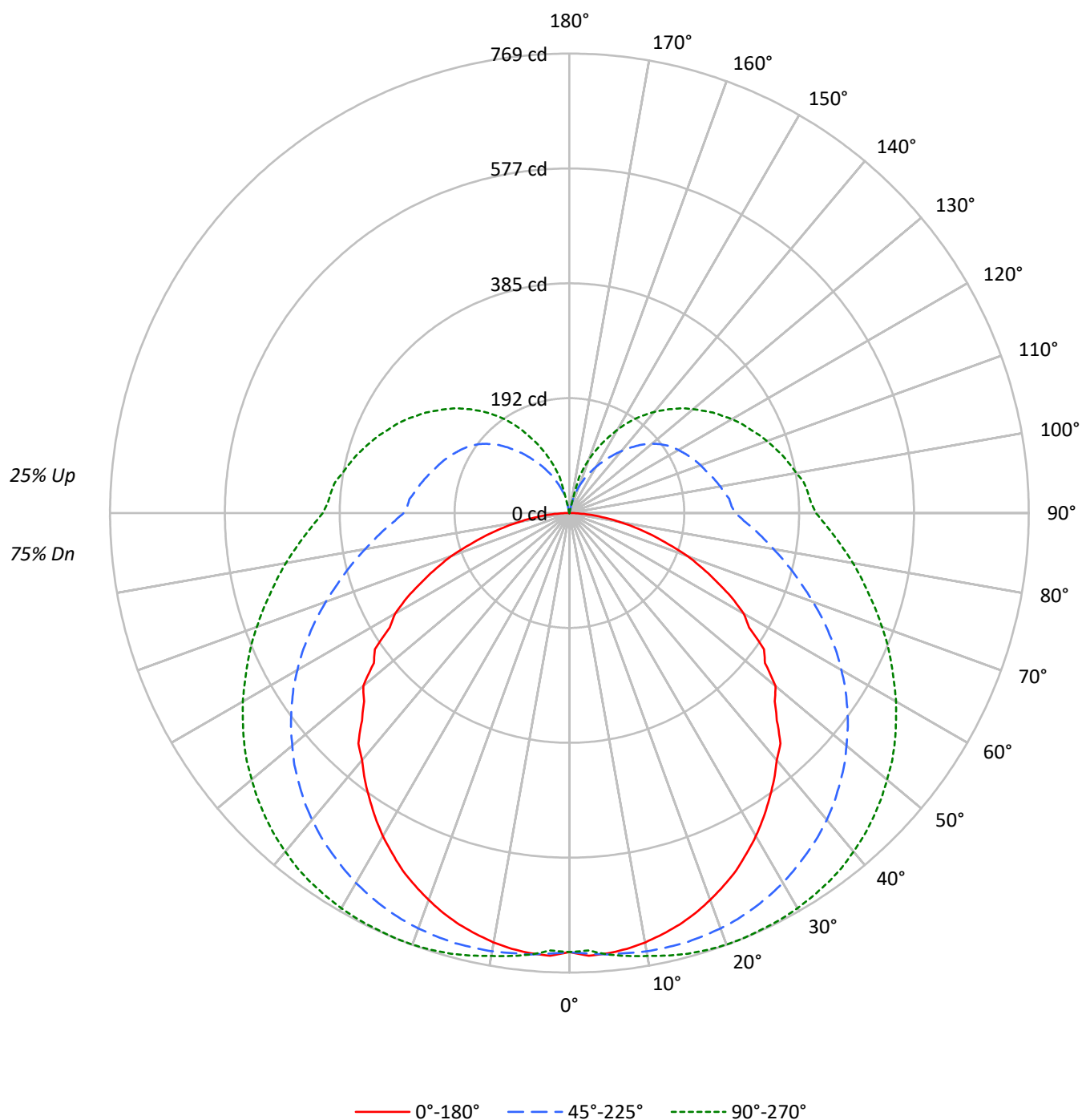
Input Watts (W): 42
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2969	2969	2969
5°	2996	2937	2912
10°	2986	2914	2896
15°	2969	2901	2902
20°	2946	2890	2908
25°	2922	2882	2912
30°	2887	2875	2928
35°	2847	2868	2948
40°	2810	2869	2967
45°	2764	2865	2990
50°	2780	2863	3015
55°	2740	2867	3050
60°	2652	2873	3092
65°	2519	2882	3149
70°	2376	2911	3238
75°	2114	2987	3369
80°	1830	3143	3585
85°	1448	3456	3903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	1.7
10°-20°	209.3	4.9
20°-30°	332.7	7.9
30°-40°	426.9	10.1
40°-50°	482.1	11.4
50°-60°	491.9	11.6
60°-70°	455.8	10.8
70°-80°	385.9	9.1
80°-90°	308.0	7.3
90°-100°	261.6	6.2
100°-110°	233.0	5.5
110°-120°	198.5	4.7
120°-130°	157.6	3.7
130°-140°	111.8	2.6
140°-150°	66.8	1.6
150°-160°	31.1	0.7
160°-170°	7.4	0.2
170°-180°	0.0	0.0
0°-30°	612.6	14.5
0°-40°	1039.5	24.6
0°-60°	2013.6	47.6
0°-90°	3163.2	74.8
90°-120°	693.0	16.4
90°-150°	1029.3	24.3
90°-180°	1068.0	25.2
0°-180°	4231.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	740	734	742	742	742	70
15°	713	719	745	758	764	201
25°	660	682	730	756	768	304
35°	584	626	694	737	755	365
45°	491	558	640	696	720	381
55°	398	464	568	637	665	349
65°	272	363	480	563	594	270
75°	143	254	389	484	518	152
85°	37	163	310	410	445	40
90°	2	133	277	378	413	3
95°	0	125	269	367	401	0
105°	0	115	245	337	370	0
115°	0	107	223	303	333	0
125°	0	93	198	268	293	0
135°	0	69	159	226	247	0
145°	0	45	111	169	193	0
155°	1	28	69	103	128	1
165°	1	15	31	43	61	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°	734.8	734.8	734.8	734.8	734.8
2.5°	741.6	733.8	737.8	736.7	732.7
5°	739.7	733.8	741.6	741.6	741.6
7.5°	735.6	731.6	742.6	746.6	747.7
10°	729.7	729.7	744.8	750.7	752.6
12.5°	721.7	724.6	744.8	753.6	758.5
15°	712.8	718.7	744.8	758.5	763.6
17.5°	701.8	711.8	742.6	759.5	766.5
20°	689.0	704.0	739.7	759.5	768.6
22.5°	675.0	694.1	735.6	757.6	768.6
25°	660.3	682.0	729.7	755.5	767.6
27.5°	642.3	670.2	722.8	752.6	766.5
30°	624.3	656.2	714.7	748.5	763.6
32.5°	604.5	641.2	704.8	742.6	759.5
35°	583.5	626.5	694.1	736.7	754.7
37.5°	562.6	608.5	683.1	728.7	748.5
40°	539.8	590.5	670.2	718.7	739.7
42.5°	522.9	571.7	656.2	708.8	730.8
45°	491.2	557.8	640.1	695.9	719.8
47.5°	466.3	530.9	624.3	683.1	707.7
50°	450.5	508.9	605.5	668.0	694.1
52.5°	412.6	494.2	587.6	653.3	680.9
55°	397.6	464.4	567.7	637.2	665.1
57.5°	356.8	443.5	547.8	619.5	648.2
60°	337.0	414.5	525.8	601.5	631.3
62.5°	306.1	389.8	504.1	581.7	612.5
65°	272.3	363.0	480.2	562.6	594.5
67.5°	240.7	336.2	457.4	542.7	576.6
70°	209.8	308.3	433.6	522.9	556.7
72.5°	173.9	280.4	410.5	504.1	537.9
75°	143.3	253.5	388.8	484.3	518.1
77.5°	113.2	227.8	367.8	466.3	500.1
80°	85.6	202.8	346.9	447.5	482.1
82.5°	59.6	181.9	328.1	429.5	463.3
85°	36.8	163.1	310.1	410.5	445.4
87.5°	16.9	146.2	292.2	392.8	428.5
90°	1.9	133.3	277.4	377.8	412.6
92.5°	1.1	129.3	271.5	370.8	404.6
95°	0.0	125.3	268.6	366.8	400.6
97.5°	0.0	121.3	261.6	360.8	395.7
100°	0.0	119.4	256.5	352.0	385.8
102.5°	0.0	116.4	250.6	343.9	377.8
105°	0.0	115.4	244.7	337.0	370.0
107.5°	0.0	113.2	238.5	328.1	360.8
110°	0.0	111.3	233.7	320.1	352.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	109.5	228.6	312.3	342.9
115°	0.0	107.3	222.7	303.2	332.9
117.5°	0.0	104.4	216.8	294.3	324.1
120°	0.0	100.3	210.9	286.3	314.2
122.5°	0.0	96.3	204.7	276.3	303.2
125°	0.0	92.6	197.7	267.5	293.2
127.5°	0.0	86.4	189.9	257.6	281.4
130°	0.0	80.5	180.0	247.6	270.4
132.5°	1.1	74.6	170.1	236.6	259.4
135°	0.0	68.7	159.1	225.6	246.6
137.5°	0.0	63.6	147.0	213.8	233.7
140°	0.0	57.7	135.2	199.9	220.8
142.5°	0.0	50.7	123.4	184.9	206.9
145°	0.0	44.8	111.3	169.0	192.9
147.5°	1.1	39.7	100.3	152.1	177.9
150°	1.1	35.7	89.6	135.2	161.0
152.5°	1.1	31.9	78.6	119.4	144.1
155°	1.1	27.9	68.7	103.3	128.2
157.5°	1.1	23.9	57.7	87.5	111.3
160°	1.1	20.9	47.8	73.5	95.5
162.5°	1.1	18.0	38.9	57.7	78.6
165°	1.1	15.0	30.9	42.7	60.6
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)