

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: P284597

Luminaire Tested: **8SNLED-LD5-58SL-SLW-UNV-L850-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: P284597
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-LD5-58SL-SLW-UNV-L850-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: 5937.0 lumens
Efficiency: N/A
Efficacy: 118.7 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

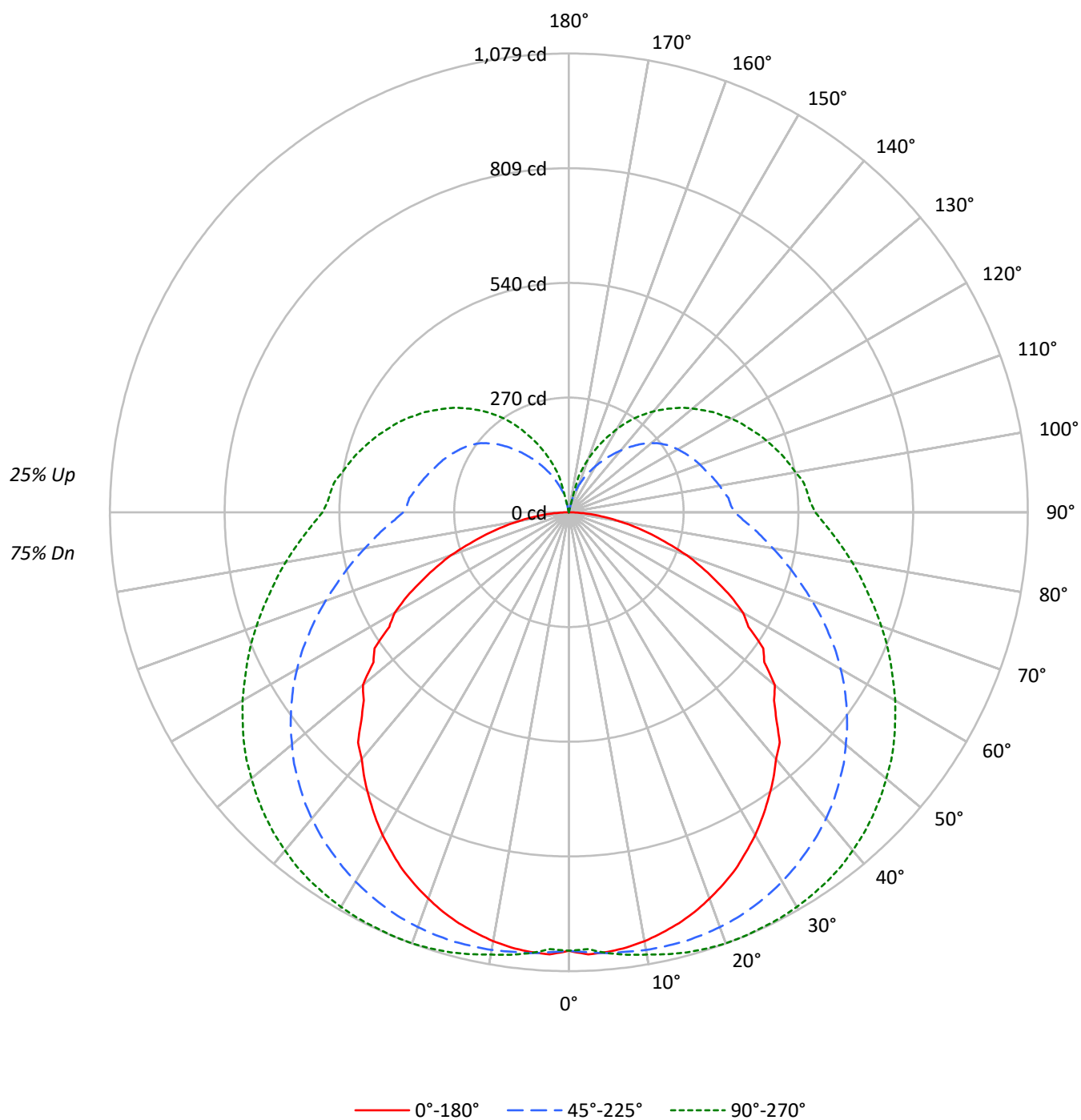
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	4166	4166	4166
5°	4204	4121	4086
10°	4190	4089	4064
15°	4167	4070	4072
20°	4134	4055	4080
25°	4101	4044	4087
30°	4051	4035	4108
35°	3995	4025	4136
40°	3944	4026	4163
45°	3878	4021	4197
50°	3901	4017	4230
55°	3844	4023	4280
60°	3720	4032	4338
65°	3535	4045	4419
70°	3335	4085	4543
75°	2965	4191	4727
80°	2567	4411	5031
85°	2030	4850	5476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	1.7
10°-20°	293.7	4.9
20°-30°	466.8	7.9
30°-40°	599.1	10.1
40°-50°	676.5	11.4
50°-60°	690.3	11.6
60°-70°	639.5	10.8
70°-80°	541.4	9.1
80°-90°	432.2	7.3
90°-100°	367.0	6.2
100°-110°	327.0	5.5
110°-120°	278.5	4.7
120°-130°	221.2	3.7
130°-140°	156.9	2.6
140°-150°	93.7	1.6
150°-160°	43.7	0.7
160°-170°	10.4	0.2
170°-180°	0.0	0.0
0°-30°	859.6	14.5
0°-40°	1458.7	24.6
0°-60°	2825.5	47.6
0°-90°	4438.7	74.8
90°-120°	972.5	16.4
90°-150°	1444.3	24.3
90°-180°	1498.0	25.2
0°-180°	5937.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1031	1031	1031	1031	1031	
5°	1038	1030	1041	1041	1041	99
15°	1000	1009	1045	1064	1071	282
25°	926	957	1024	1060	1077	426
35°	819	879	974	1034	1059	513
45°	689	783	898	977	1010	535
55°	558	652	797	894	933	490
65°	382	509	674	790	834	379
75°	201	356	546	680	727	214
85°	52	229	435	576	625	56
90°	3	187	389	530	579	4
95°	0	176	377	515	562	0
105°	0	162	343	473	519	0
115°	0	151	312	425	467	0
125°	0	130	278	375	412	0
135°	0	96	223	317	346	0
145°	0	63	156	237	271	1
155°	2	39	96	145	180	1
165°	2	21	43	60	85	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°	1031.1	1031.1	1031.1	1031.1	1031.1
2.5°	1040.6	1029.6	1035.3	1033.8	1028.1
5°	1037.9	1029.6	1040.6	1040.6	1040.6
7.5°	1032.3	1026.6	1042.1	1047.7	1049.2
10°	1024.0	1024.0	1045.1	1053.4	1056.0
12.5°	1012.7	1016.8	1045.1	1057.5	1064.3
15°	1000.3	1008.6	1045.1	1064.3	1071.4
17.5°	984.8	998.8	1042.1	1065.8	1075.6
20°	966.8	987.9	1037.9	1065.8	1078.6
22.5°	947.2	973.9	1032.3	1063.1	1078.6
25°	926.5	957.0	1024.0	1060.1	1077.1
27.5°	901.3	940.4	1014.2	1056.0	1075.6
30°	876.0	920.8	1002.9	1050.3	1071.4
32.5°	848.2	899.8	989.0	1042.1	1065.8
35°	818.8	879.1	973.9	1033.8	1059.0
37.5°	789.5	853.8	958.5	1022.5	1050.3
40°	757.5	828.6	940.4	1008.6	1037.9
42.5°	733.7	802.3	920.8	994.6	1025.5
45°	689.3	782.7	898.3	976.6	1010.1
47.5°	654.3	745.0	876.0	958.5	993.1
50°	632.1	714.2	849.7	937.4	973.9
52.5°	579.0	693.5	824.5	916.7	955.5
55°	557.9	651.7	796.6	894.1	933.3
57.5°	500.7	622.3	768.7	869.3	909.5
60°	472.8	581.6	737.9	844.0	885.8
62.5°	429.5	547.0	707.4	816.2	859.5
65°	382.1	509.4	673.9	789.5	834.3
67.5°	337.7	471.7	641.9	761.6	809.0
70°	294.4	432.6	608.4	733.7	781.2
72.5°	244.0	393.4	576.0	707.4	754.8
75°	201.0	355.8	545.5	679.5	727.0
77.5°	158.9	319.6	516.1	654.3	701.7
80°	120.1	284.6	486.8	627.9	676.5
82.5°	83.6	255.2	460.4	602.7	650.2
85°	51.6	228.9	435.2	576.0	624.9
87.5°	23.7	205.2	410.0	551.1	601.2
90°	2.6	187.1	389.3	530.1	579.0
92.5°	1.5	181.5	381.0	520.3	567.7
95°	0.0	175.8	376.8	514.6	562.1
97.5°	0.0	170.2	367.1	506.3	555.3
100°	0.0	167.5	359.9	493.9	541.4
102.5°	0.0	163.4	351.6	482.6	530.1
105°	0.0	161.9	343.3	472.8	519.1
107.5°	0.0	158.9	334.7	460.4	506.3
110°	0.0	156.2	327.9	449.1	493.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	153.6	320.8	438.2	481.1
115°	0.0	150.6	312.5	425.4	467.2
117.5°	0.0	146.4	304.2	413.0	454.8
120°	0.0	140.8	295.9	401.7	440.8
122.5°	0.0	135.2	287.2	387.8	425.4
125°	0.0	129.9	277.5	375.3	411.5
127.5°	0.0	121.2	266.5	361.4	394.9
130°	0.0	112.9	252.6	347.5	379.5
132.5°	1.5	104.7	238.7	332.0	364.0
135°	0.0	96.4	223.2	316.6	346.0
137.5°	0.0	89.2	206.3	300.0	327.9
140°	0.0	80.9	189.7	280.5	309.8
142.5°	0.0	71.2	173.2	259.4	290.3
145°	0.0	62.9	156.2	237.2	270.7
147.5°	1.5	55.7	140.8	213.5	249.6
150°	1.5	50.1	125.7	189.7	225.9
152.5°	1.5	44.8	110.3	167.5	202.2
155°	1.5	39.2	96.4	144.9	180.0
157.5°	1.5	33.5	80.9	122.7	156.2
160°	1.5	29.4	67.0	103.2	134.0
162.5°	1.5	25.2	54.6	80.9	110.3
165°	1.5	21.1	43.3	59.9	85.1
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)