

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: P284715

Luminaire Tested: **8SNLED-LD5-64SL-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: P284715
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-LD5-64SL-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: 5522.0 lumens
Efficiency: N/A
Efficacy: 100.4 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

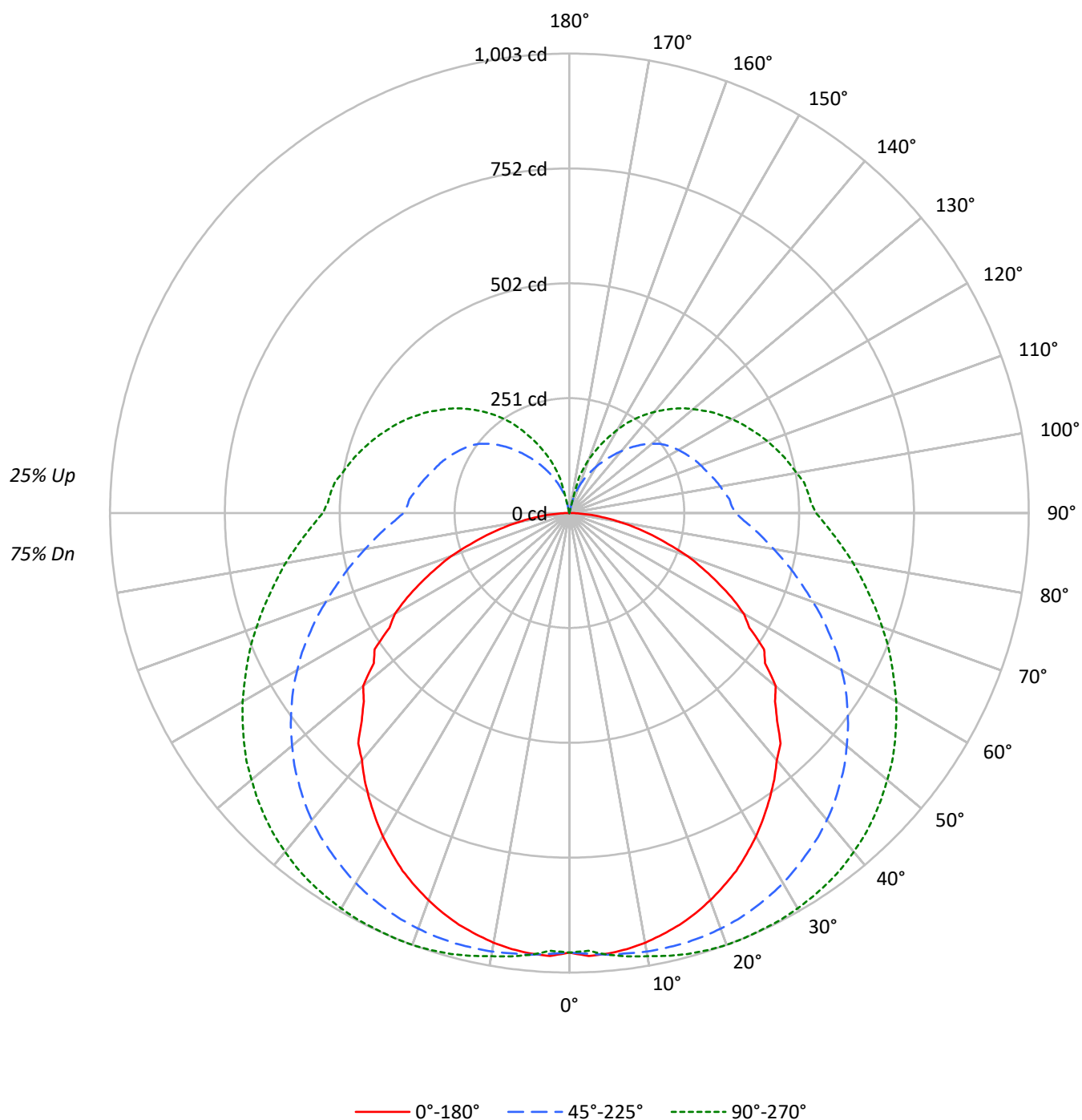
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3875	3875	3875
5°	3910	3833	3801
10°	3897	3803	3780
15°	3876	3785	3787
20°	3845	3772	3795
25°	3814	3761	3801
30°	3768	3753	3821
35°	3716	3743	3847
40°	3668	3745	3872
45°	3607	3740	3903
50°	3628	3737	3934
55°	3576	3742	3981
60°	3460	3750	4035
65°	3288	3762	4110
70°	3101	3799	4226
75°	2758	3899	4396
80°	2388	4102	4679
85°	1888	4511	5094



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	1.7
10°-20°	273.2	4.9
20°-30°	434.2	7.9
30°-40°	557.2	10.1
40°-50°	629.2	11.4
50°-60°	642.1	11.6
60°-70°	594.8	10.8
70°-80°	503.6	9.1
80°-90°	402.0	7.3
90°-100°	341.4	6.2
100°-110°	304.1	5.5
110°-120°	259.0	4.7
120°-130°	205.7	3.7
130°-140°	146.0	2.6
140°-150°	87.2	1.6
150°-160°	40.6	0.7
160°-170°	9.7	0.2
170°-180°	0.0	0.0
0°-30°	799.5	14.5
0°-40°	1356.7	24.6
0°-60°	2628.0	47.6
0°-90°	4128.4	74.8
90°-120°	904.5	16.4
90°-150°	1343.3	24.3
90°-180°	1394.0	25.2
0°-180°	5522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	965	958	968	968	968	92
15°	930	938	972	990	996	262
25°	862	890	952	986	1002	397
35°	762	818	906	962	985	477
45°	641	728	836	908	940	498
55°	519	606	741	832	868	456
65°	355	474	627	734	776	353
75°	187	331	507	632	676	199
85°	48	213	405	536	581	52
90°	2	174	362	493	538	4
95°	0	164	350	479	523	0
105°	0	151	319	440	483	0
115°	0	140	291	396	434	0
125°	0	121	258	349	383	0
135°	0	90	208	294	322	0
145°	0	58	145	221	252	1
155°	1	36	90	135	167	1
165°	1	20	40	56	79	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°	959.1	959.1	959.1	959.1	959.1
2.5°	967.8	957.7	962.9	961.5	956.3
5°	965.4	957.7	967.8	967.8	967.8
7.5°	960.1	954.9	969.2	974.5	975.9
10°	952.4	952.4	972.0	979.7	982.2
12.5°	941.9	945.8	972.0	983.6	989.9
15°	930.4	938.1	972.0	989.9	996.5
17.5°	916.0	929.0	969.2	991.3	1000.4
20°	899.2	918.8	965.4	991.3	1003.2
22.5°	881.0	905.8	960.1	988.8	1003.2
25°	861.7	890.1	952.4	986.0	1001.8
27.5°	838.3	874.7	943.3	982.2	1000.4
30°	814.8	856.5	932.8	976.9	996.5
32.5°	788.9	836.9	919.9	969.2	991.3
35°	761.6	817.6	905.8	961.5	985.0
37.5°	734.3	794.1	891.5	951.0	976.9
40°	704.5	770.7	874.7	938.1	965.4
42.5°	682.4	746.2	856.5	925.1	953.8
45°	641.1	728.0	835.5	908.3	939.5
47.5°	608.6	693.0	814.8	891.5	923.7
50°	587.9	664.2	790.3	871.9	905.8
52.5°	538.5	645.0	766.8	852.6	888.7
55°	518.9	606.1	740.9	831.6	868.0
57.5°	465.7	578.8	715.0	808.5	846.0
60°	439.8	541.0	686.3	785.0	823.9
62.5°	399.5	508.8	657.9	759.1	799.4
65°	355.4	473.8	626.8	734.3	775.9
67.5°	314.1	438.7	597.0	708.4	752.5
70°	273.8	402.3	565.8	682.4	726.6
72.5°	226.9	365.9	535.7	657.9	702.1
75°	187.0	330.9	507.4	632.0	676.1
77.5°	147.8	297.3	480.1	608.6	652.7
80°	111.7	264.7	452.7	584.1	629.2
82.5°	77.7	237.4	428.2	560.6	604.7
85°	48.0	212.9	404.8	535.7	581.3
87.5°	22.1	190.8	381.3	512.6	559.2
90°	2.5	174.0	362.1	493.0	538.5
92.5°	1.4	168.8	354.4	483.9	528.0
95°	0.0	163.5	350.5	478.7	522.8
97.5°	0.0	158.3	341.4	471.0	516.5
100°	0.0	155.8	334.7	459.4	503.5
102.5°	0.0	152.0	327.0	448.9	493.0
105°	0.0	150.6	319.3	439.8	482.9
107.5°	0.0	147.8	311.3	428.2	471.0
110°	0.0	145.3	305.0	417.7	459.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	142.9	298.3	407.6	447.5
115°	0.0	140.1	290.6	395.7	434.5
117.5°	0.0	136.2	282.9	384.1	423.0
120°	0.0	131.0	275.2	373.6	410.0
122.5°	0.0	125.7	267.2	360.7	395.7
125°	0.0	120.8	258.1	349.1	382.7
127.5°	0.0	112.7	247.9	336.1	367.3
130°	0.0	105.0	235.0	323.2	353.0
132.5°	1.4	97.3	222.0	308.8	338.6
135°	0.0	89.6	207.6	294.5	321.8
137.5°	0.0	83.0	191.9	279.1	305.0
140°	0.0	75.3	176.5	260.9	288.2
142.5°	0.0	66.2	161.1	241.3	270.0
145°	0.0	58.5	145.3	220.6	251.8
147.5°	1.4	51.8	131.0	198.5	232.2
150°	1.4	46.6	117.0	176.5	210.1
152.5°	1.4	41.7	102.6	155.8	188.0
155°	1.4	36.4	89.6	134.8	167.4
157.5°	1.4	31.2	75.3	114.1	145.3
160°	1.4	27.3	62.3	95.9	124.7
162.5°	1.4	23.5	50.8	75.3	102.6
165°	1.4	19.6	40.3	55.7	79.1
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)