

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: P284683

Luminaire Tested: **8SNLED-LD5-108SL-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: P284683
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-LD5-108SL-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: 9114.0 lumens
Efficiency: N/A
Efficacy: 82.9 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

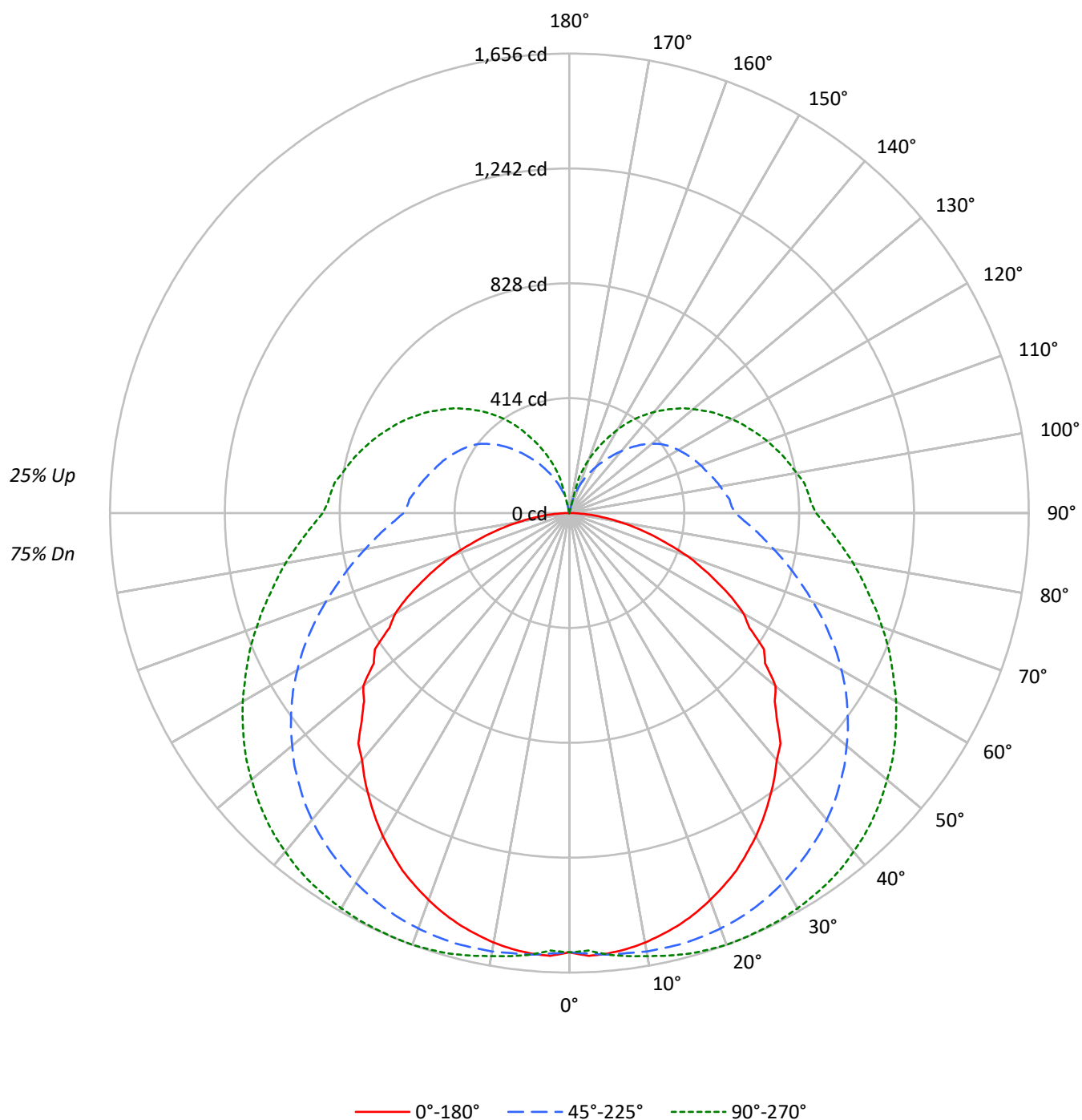
Input Watts (W): 110
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6396	6396	6396
5°	6454	6326	6273
10°	6432	6276	6238
15°	6396	6248	6251
20°	6345	6225	6263
25°	6295	6208	6273
30°	6218	6194	6307
35°	6133	6179	6350
40°	6054	6181	6391
45°	5954	6173	6442
50°	5988	6167	6493
55°	5902	6176	6570
60°	5711	6189	6660
65°	5426	6209	6784
70°	5119	6270	6974
75°	4552	6434	7256
80°	3941	6771	7723
85°	3115	7445	8407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	1.7
10°-20°	450.9	4.9
20°-30°	716.6	7.9
30°-40°	919.7	10.1
40°-50°	1038.5	11.4
50°-60°	1059.7	11.6
60°-70°	981.8	10.8
70°-80°	831.2	9.1
80°-90°	663.5	7.3
90°-100°	563.4	6.2
100°-110°	502.0	5.5
110°-120°	427.5	4.7
120°-130°	339.5	3.7
130°-140°	240.9	2.6
140°-150°	143.8	1.6
150°-160°	67.1	0.7
160°-170°	15.9	0.2
170°-180°	0.0	0.0
0°-30°	1319.6	14.5
0°-40°	2239.2	24.6
0°-60°	4337.5	47.6
0°-90°	6813.9	74.8
90°-120°	1492.9	16.4
90°-150°	2217.1	24.3
90°-180°	2300.0	25.2
0°-180°	9114.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1583	1583	1583	1583	1583	
5°	1593	1581	1597	1597	1597	151
15°	1536	1548	1604	1634	1645	433
25°	1422	1469	1572	1627	1653	655
35°	1257	1349	1495	1587	1626	787
45°	1058	1202	1379	1499	1551	822
55°	856	1000	1223	1373	1433	752
65°	587	782	1034	1212	1281	582
75°	309	546	837	1043	1116	328
85°	79	351	668	884	959	86
90°	4	287	598	814	889	6
95°	0	270	578	790	863	0
105°	0	248	527	726	797	0
115°	0	231	480	653	717	0
125°	0	199	426	576	632	0
135°	0	148	343	486	531	0
145°	0	96	240	364	416	1
155°	2	60	148	222	276	1
165°	2	32	66	92	131	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°	1582.9	1582.9	1582.9	1582.9	1582.9
2.5°	1597.4	1580.6	1589.3	1587.0	1578.3
5°	1593.3	1580.6	1597.4	1597.4	1597.4
7.5°	1584.7	1576.0	1599.7	1608.4	1610.7
10°	1571.9	1571.9	1604.3	1617.0	1621.1
12.5°	1554.6	1561.0	1604.3	1623.4	1633.8
15°	1535.5	1548.3	1604.3	1633.8	1644.8
17.5°	1511.8	1533.2	1599.7	1636.1	1651.1
20°	1484.1	1516.5	1593.3	1636.1	1655.7
22.5°	1454.1	1495.1	1584.7	1632.1	1655.7
25°	1422.3	1469.1	1571.9	1627.4	1653.4
27.5°	1383.5	1443.7	1556.9	1621.1	1651.1
30°	1344.8	1413.6	1539.6	1612.4	1644.8
32.5°	1302.1	1381.2	1518.2	1599.7	1636.1
35°	1257.0	1349.4	1495.1	1587.0	1625.7
37.5°	1211.9	1310.7	1471.4	1569.6	1612.4
40°	1162.8	1272.0	1443.7	1548.3	1593.3
42.5°	1126.4	1231.6	1413.6	1526.9	1574.3
45°	1058.2	1201.5	1378.9	1499.1	1550.6
47.5°	1004.4	1143.7	1344.8	1471.4	1524.6
50°	970.3	1096.3	1304.4	1439.0	1495.1
52.5°	888.8	1064.5	1265.7	1407.2	1466.8
55°	856.5	1000.4	1222.9	1372.6	1432.7
57.5°	768.6	955.3	1180.1	1334.4	1396.3
60°	725.9	892.9	1132.7	1295.7	1359.9
62.5°	659.4	839.7	1085.9	1252.9	1319.4
65°	586.6	781.9	1034.5	1211.9	1280.7
67.5°	518.4	724.1	985.4	1169.1	1242.0
70°	451.9	664.0	933.9	1126.4	1199.2
72.5°	374.5	603.9	884.2	1085.9	1158.7
75°	308.6	546.1	837.4	1043.2	1116.0
77.5°	243.9	490.7	792.3	1004.4	1077.2
80°	184.4	436.9	747.3	964.0	1038.5
82.5°	128.3	391.8	706.8	925.3	998.1
85°	79.2	351.4	668.1	884.2	959.4
87.5°	36.4	315.0	629.4	846.1	922.9
90°	4.0	287.2	597.6	813.7	888.8
92.5°	2.3	278.6	584.9	798.7	871.5
95°	0.0	269.9	578.5	790.0	862.8
97.5°	0.0	261.2	563.5	777.3	852.4
100°	0.0	257.2	552.5	758.2	831.1
102.5°	0.0	250.8	539.8	740.9	813.7
105°	0.0	248.5	527.1	725.9	797.0
107.5°	0.0	243.9	513.8	706.8	777.3
110°	0.0	239.8	503.4	689.5	758.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	235.8	492.4	672.7	738.6
115°	0.0	231.2	479.7	653.1	717.2
117.5°	0.0	224.8	467.0	634.0	698.1
120°	0.0	216.1	454.2	616.6	676.7
122.5°	0.0	207.5	441.0	595.3	653.1
125°	0.0	199.4	425.9	576.2	631.7
127.5°	0.0	186.1	409.2	554.8	606.2
130°	0.0	173.4	387.8	533.4	582.5
132.5°	2.3	160.7	366.4	509.7	558.9
135°	0.0	147.9	342.7	486.0	531.1
137.5°	0.0	137.0	316.7	460.6	503.4
140°	0.0	124.3	291.3	430.6	475.6
142.5°	0.0	109.2	265.8	398.2	445.6
145°	0.0	96.5	239.8	364.1	415.5
147.5°	2.3	85.5	216.1	327.7	383.2
150°	2.3	76.9	193.0	291.3	346.8
152.5°	2.3	68.8	169.3	257.2	310.3
155°	2.3	60.1	147.9	222.5	276.2
157.5°	2.3	51.4	124.3	188.4	239.8
160°	2.3	45.1	102.9	158.4	205.7
162.5°	2.3	38.7	83.8	124.3	169.3
165°	2.3	32.4	66.5	91.9	130.6
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)