

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: P284722

Luminaire Tested: **8SNLED-LD5-108SL-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: P284722
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-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: 9329.0 lumens
Efficiency: N/A
Efficacy: 84.8 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

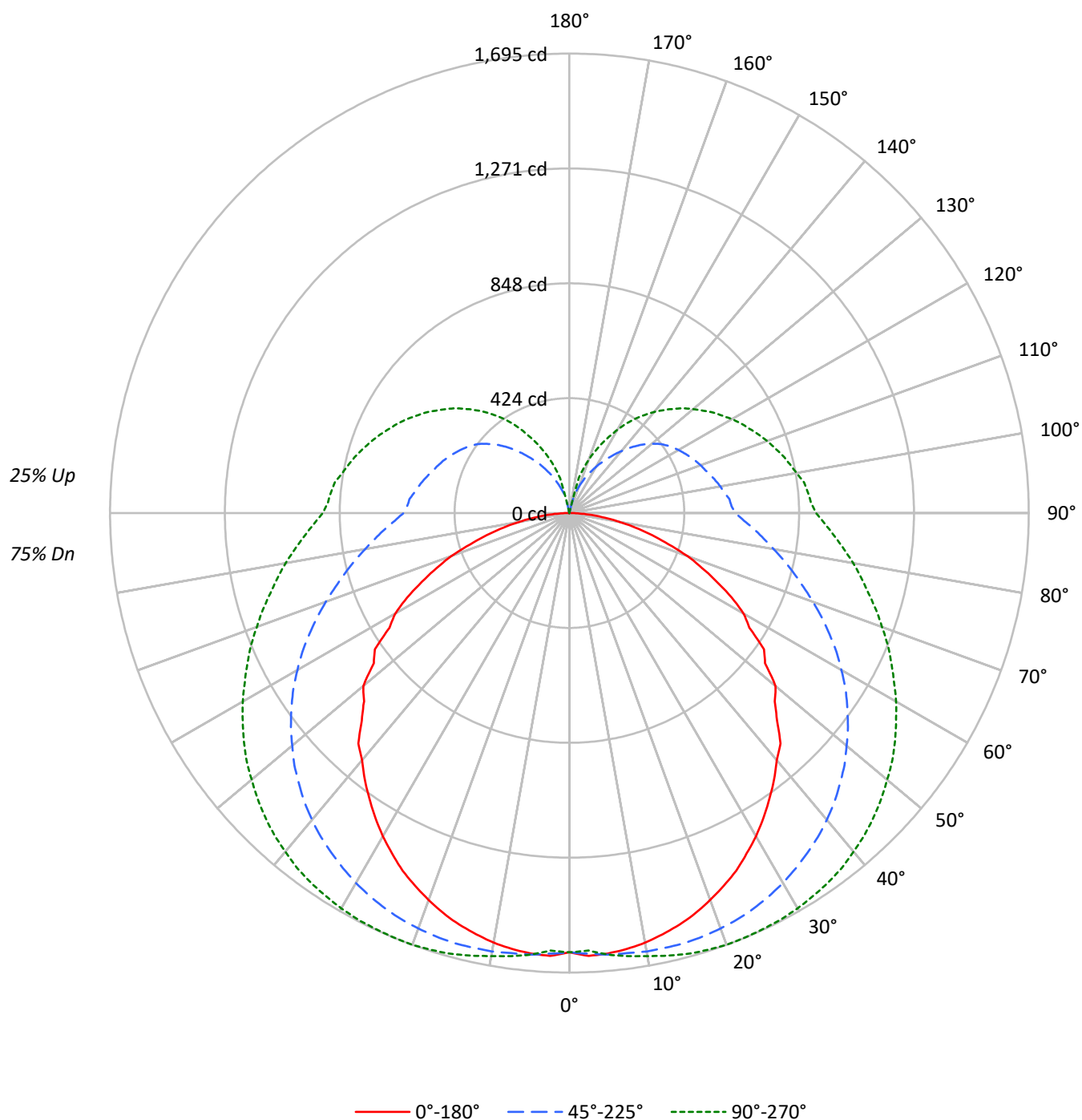
Input Watts (W): 110
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	6547	6547	6547
5°	6606	6475	6421
10°	6583	6424	6385
15°	6547	6396	6399
20°	6495	6371	6411
25°	6443	6354	6421
30°	6365	6340	6456
35°	6278	6324	6499
40°	6196	6326	6542
45°	6094	6319	6594
50°	6129	6312	6647
55°	6041	6321	6725
60°	5846	6335	6816
65°	5554	6356	6944
70°	5240	6418	7139
75°	4660	6586	7427
80°	4033	6931	7905
85°	3186	7620	8605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	1.7
10°-20°	461.5	4.9
20°-30°	733.5	7.9
30°-40°	941.4	10.1
40°-50°	1063.0	11.4
50°-60°	1084.7	11.6
60°-70°	1004.9	10.8
70°-80°	850.8	9.1
80°-90°	679.1	7.3
90°-100°	576.7	6.2
100°-110°	513.8	5.5
110°-120°	437.6	4.7
120°-130°	347.6	3.7
130°-140°	246.6	2.6
140°-150°	147.2	1.6
150°-160°	68.6	0.7
160°-170°	16.3	0.2
170°-180°	0.0	0.0
0°-30°	1350.7	14.5
0°-40°	2292.1	24.6
0°-60°	4439.8	47.6
0°-90°	6974.6	74.8
90°-120°	1528.1	16.4
90°-150°	2269.4	24.3
90°-180°	2354.0	25.2
0°-180°	9329.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1620	1620	1620	1620	1620	
5°	1631	1618	1635	1635	1635	155
15°	1572	1585	1642	1672	1684	443
25°	1456	1504	1609	1666	1692	670
35°	1287	1381	1530	1624	1664	805
45°	1083	1230	1412	1534	1587	841
55°	877	1024	1252	1405	1466	770
65°	600	800	1059	1240	1311	596
75°	316	559	857	1068	1142	336
85°	81	360	684	905	982	88
90°	4	294	612	833	910	7
95°	0	276	592	809	883	0
105°	0	254	540	743	816	0
115°	0	237	491	668	734	0
125°	0	204	436	590	647	0
135°	0	151	351	498	544	0
145°	0	99	246	373	425	1
155°	2	62	151	228	283	1
165°	2	33	68	94	134	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284722

CATALOG NUMBER: 8SNLED-LD5-108SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1620.3	1620.3	1620.3	1620.3	1620.3
2.5°	1635.1	1617.9	1626.8	1624.4	1615.5
5°	1630.9	1617.9	1635.1	1635.1	1635.1
7.5°	1622.0	1613.2	1637.4	1646.3	1648.7
10°	1609.0	1609.0	1642.2	1655.2	1659.3
12.5°	1591.3	1597.8	1642.2	1661.7	1672.3
15°	1571.8	1584.8	1642.2	1672.3	1683.6
17.5°	1547.5	1569.4	1637.4	1674.7	1690.1
20°	1519.1	1552.2	1630.9	1674.7	1694.8
22.5°	1488.4	1530.4	1622.0	1670.6	1694.8
25°	1455.8	1503.7	1609.0	1665.8	1692.4
27.5°	1416.2	1477.7	1593.7	1659.3	1690.1
30°	1376.6	1446.9	1575.9	1650.4	1683.6
32.5°	1332.8	1413.8	1554.0	1637.4	1674.7
35°	1286.6	1381.3	1530.4	1624.4	1664.0
37.5°	1240.5	1341.6	1506.1	1606.7	1650.4
40°	1190.2	1302.0	1477.7	1584.8	1630.9
42.5°	1152.9	1260.6	1446.9	1562.9	1611.4
45°	1083.1	1229.8	1411.5	1534.5	1587.1
47.5°	1028.1	1170.7	1376.6	1506.1	1560.5
50°	993.2	1122.2	1335.1	1473.0	1530.4
52.5°	909.8	1089.6	1295.5	1440.4	1501.4
55°	876.7	1024.0	1251.7	1404.9	1466.5
57.5°	786.8	977.8	1208.0	1365.9	1429.2
60°	743.0	914.0	1159.4	1326.3	1391.9
62.5°	675.0	859.5	1111.5	1282.5	1350.5
65°	600.4	800.4	1058.9	1240.5	1310.9
67.5°	530.6	741.2	1008.6	1196.7	1271.3
70°	462.6	679.7	956.0	1152.9	1227.5
72.5°	383.3	618.2	905.1	1111.5	1186.1
75°	315.9	559.0	857.2	1067.8	1142.3
77.5°	249.6	502.2	811.0	1028.1	1102.7
80°	188.7	447.2	764.9	986.7	1063.0
82.5°	131.3	401.1	723.5	947.1	1021.6
85°	81.0	359.7	683.8	905.1	982.0
87.5°	37.3	322.4	644.2	866.0	944.7
90°	4.1	294.0	611.7	832.9	909.8
92.5°	2.4	285.1	598.7	817.5	892.1
95°	0.0	276.3	592.1	808.7	883.2
97.5°	0.0	267.4	576.8	795.6	872.5
100°	0.0	263.2	565.5	776.1	850.7
102.5°	0.0	256.7	552.5	758.4	832.9
105°	0.0	254.4	539.5	743.0	815.8
107.5°	0.0	249.6	525.9	723.5	795.6
110°	0.0	245.5	515.2	705.7	776.1



TEST NUMBER: P284722

CATALOG NUMBER: 8SNLED-LD5-108SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	241.4	504.0	688.6	756.0
115°	0.0	236.6	491.0	668.5	734.1
117.5°	0.0	230.1	478.0	648.9	714.6
120°	0.0	221.2	465.0	631.2	692.7
122.5°	0.0	212.4	451.4	609.3	668.5
125°	0.0	204.1	436.0	589.8	646.6
127.5°	0.0	190.5	418.8	567.9	620.5
130°	0.0	177.5	396.9	546.0	596.3
132.5°	2.4	164.5	375.0	521.8	572.0
135°	0.0	151.4	350.8	497.5	543.6
137.5°	0.0	140.2	324.2	471.5	515.2
140°	0.0	127.2	298.1	440.7	486.9
142.5°	0.0	111.8	272.1	407.6	456.1
145°	0.0	98.8	245.5	372.7	425.3
147.5°	2.4	87.6	221.2	335.4	392.2
150°	2.4	78.7	197.6	298.1	354.9
152.5°	2.4	70.4	173.3	263.2	317.7
155°	2.4	61.5	151.4	227.7	282.8
157.5°	2.4	52.6	127.2	192.8	245.5
160°	2.4	46.1	105.3	162.1	210.6
162.5°	2.4	39.6	85.8	127.2	173.3
165°	2.4	33.1	68.0	94.1	133.7
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)