

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: P284486

Luminaire Tested: **8SNLED-LD5-96SL-SLW-UNV-L830-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: P284486
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-LD5-96SL-SLW-UNV-L830-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: 9461.0 lumens
Efficiency: N/A
Efficacy: 102.8 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

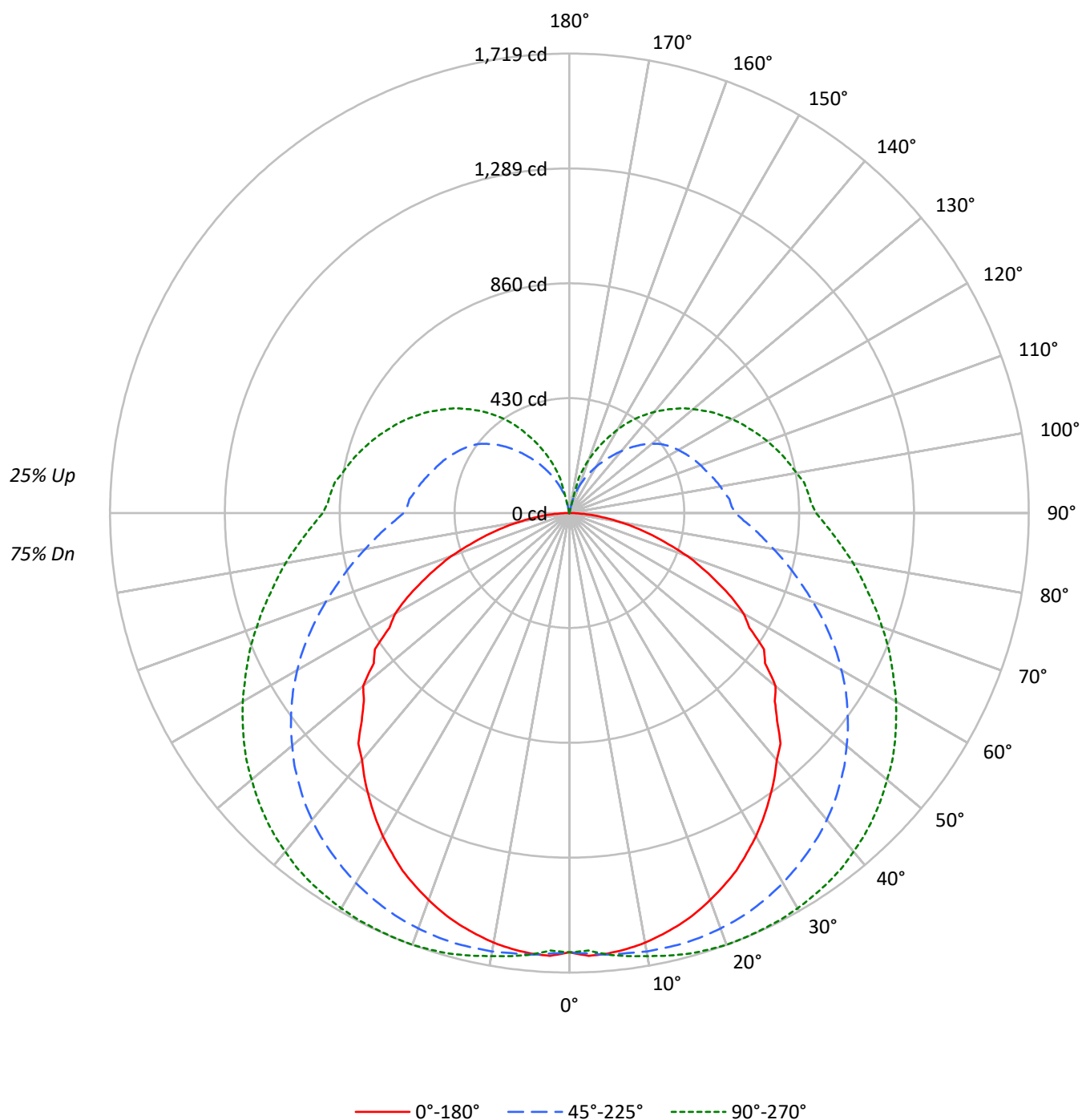
Input Watts (W): 92
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284486

CATALOG NUMBER: 8SNLED-LD5-96SL-SLW-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284486

CATALOG NUMBER: 8SNLED-LD5-96SL-SLW-UNV-L830-CD1-U

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°	6639	6639	6639
5°	6699	6567	6512
10°	6677	6515	6476
15°	6640	6486	6489
20°	6587	6462	6502
25°	6534	6444	6512
30°	6455	6430	6547
35°	6366	6414	6592
40°	6284	6416	6634
45°	6180	6408	6687
50°	6216	6402	6740
55°	6126	6411	6820
60°	5929	6425	6913
65°	5633	6446	7042
70°	5314	6509	7239
75°	4726	6679	7533
80°	4091	7029	8017
85°	3233	7728	8727



TEST NUMBER: P284486

CATALOG NUMBER: 8SNLED-LD5-96SL-SLW-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	1.7
10°-20°	468.0	4.9
20°-30°	743.9	7.9
30°-40°	954.7	10.1
40°-50°	1078.1	11.4
50°-60°	1100.1	11.6
60°-70°	1019.1	10.8
70°-80°	862.8	9.1
80°-90°	688.7	7.3
90°-100°	584.9	6.2
100°-110°	521.1	5.5
110°-120°	443.8	4.7
120°-130°	352.5	3.7
130°-140°	250.1	2.6
140°-150°	149.3	1.6
150°-160°	69.6	0.7
160°-170°	16.5	0.2
170°-180°	0.0	0.0
0°-30°	1369.8	14.5
0°-40°	2324.5	24.6
0°-60°	4502.6	47.6
0°-90°	7073.3	74.8
90°-120°	1549.7	16.4
90°-150°	2301.5	24.3
90°-180°	2388.0	25.2
0°-180°	9461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1643	1643	1643	1643	1643	
5°	1654	1641	1658	1658	1658	157
15°	1594	1607	1665	1696	1707	450
25°	1476	1525	1632	1689	1716	680
35°	1305	1401	1552	1647	1688	817
45°	1098	1247	1431	1556	1610	853
55°	889	1038	1269	1425	1487	781
65°	609	812	1074	1258	1329	604
75°	320	567	869	1083	1158	341
85°	82	365	694	918	996	90
90°	4	298	620	845	923	7
95°	0	280	600	820	896	0
105°	0	258	547	754	827	0
115°	0	240	498	678	744	0
125°	0	207	442	598	656	0
135°	0	154	356	504	551	0
145°	0	100	249	378	431	1
155°	2	62	154	231	287	1
165°	2	34	69	95	136	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284486

CATALOG NUMBER: 8SNLED-LD5-96SL-SLW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1643.2	1643.2	1643.2	1643.2	1643.2
2.5°	1658.2	1640.8	1649.8	1647.4	1638.4
5°	1654.0	1640.8	1658.2	1658.2	1658.2
7.5°	1645.0	1636.0	1660.6	1669.6	1672.0
10°	1631.8	1631.8	1665.4	1678.6	1682.8
12.5°	1613.8	1620.4	1665.4	1685.2	1696.0
15°	1594.0	1607.2	1665.4	1696.0	1707.4
17.5°	1569.4	1591.6	1660.6	1698.4	1714.0
20°	1540.6	1574.2	1654.0	1698.4	1718.8
22.5°	1509.4	1552.0	1645.0	1694.2	1718.8
25°	1476.4	1525.0	1631.8	1689.4	1716.4
27.5°	1436.2	1498.6	1616.2	1682.8	1714.0
30°	1396.0	1467.4	1598.2	1673.8	1707.4
32.5°	1351.6	1433.8	1576.0	1660.6	1698.4
35°	1304.8	1400.8	1552.0	1647.4	1687.6
37.5°	1258.0	1360.6	1527.4	1629.4	1673.8
40°	1207.1	1320.4	1498.6	1607.2	1654.0
42.5°	1169.3	1278.4	1467.4	1585.0	1634.2
45°	1098.5	1247.2	1431.4	1556.2	1609.6
47.5°	1042.7	1187.3	1396.0	1527.4	1582.6
50°	1007.3	1138.1	1354.0	1493.8	1552.0
52.5°	922.7	1105.1	1313.8	1460.8	1522.6
55°	889.1	1038.5	1269.4	1424.8	1487.2
57.5°	797.9	991.7	1225.0	1385.2	1449.4
60°	753.5	926.9	1175.9	1345.0	1411.6
62.5°	684.5	871.7	1127.3	1300.6	1369.6
65°	608.9	811.7	1073.9	1258.0	1329.4
67.5°	538.1	751.7	1022.9	1213.7	1289.2
70°	469.1	689.3	969.5	1169.3	1244.8
72.5°	388.8	626.9	917.9	1127.3	1202.9
75°	320.4	566.9	869.3	1082.9	1158.5
77.5°	253.2	509.3	822.5	1042.7	1118.3
80°	191.4	453.5	775.7	1000.7	1078.1
82.5°	133.2	406.7	733.7	960.5	1036.1
85°	82.2	364.8	693.5	917.9	995.9
87.5°	37.8	327.0	653.3	878.3	958.1
90°	4.2	298.2	620.3	844.7	922.7
92.5°	2.4	289.2	607.1	829.1	904.7
95°	0.0	280.2	600.5	820.1	895.7
97.5°	0.0	271.2	584.9	806.9	884.9
100°	0.0	267.0	573.5	787.1	862.7
102.5°	0.0	260.4	560.3	769.1	844.7
105°	0.0	258.0	547.1	753.5	827.3
107.5°	0.0	253.2	533.3	733.7	806.9
110°	0.0	249.0	522.5	715.7	787.1



TEST NUMBER: P284486

CATALOG NUMBER: 8SNLED-LD5-96SL-SLW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	244.8	511.1	698.3	766.7
115°	0.0	240.0	497.9	677.9	744.5
117.5°	0.0	233.4	484.7	658.1	724.7
120°	0.0	224.4	471.5	640.1	702.5
122.5°	0.0	215.4	457.7	617.9	677.9
125°	0.0	207.0	442.1	598.1	655.7
127.5°	0.0	193.2	424.7	575.9	629.3
130°	0.0	180.0	402.6	553.7	604.7
132.5°	2.4	166.8	380.4	529.1	580.1
135°	0.0	153.6	355.8	504.5	551.3
137.5°	0.0	142.2	328.8	478.1	522.5
140°	0.0	129.0	302.4	446.9	493.7
142.5°	0.0	113.4	276.0	413.3	462.5
145°	0.0	100.2	249.0	378.0	431.3
147.5°	2.4	88.8	224.4	340.2	397.8
150°	2.4	79.8	200.4	302.4	360.0
152.5°	2.4	71.4	175.8	267.0	322.2
155°	2.4	62.4	153.6	231.0	286.8
157.5°	2.4	53.4	129.0	195.6	249.0
160°	2.4	46.8	106.8	164.4	213.6
162.5°	2.4	40.2	87.0	129.0	175.8
165°	2.4	33.6	69.0	95.4	135.6
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)