

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: P284603

Luminaire Tested: **8SNLED-LD5-96SL-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: P284603
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-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: 9787.0 lumens
Efficiency: N/A
Efficacy: 106.4 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

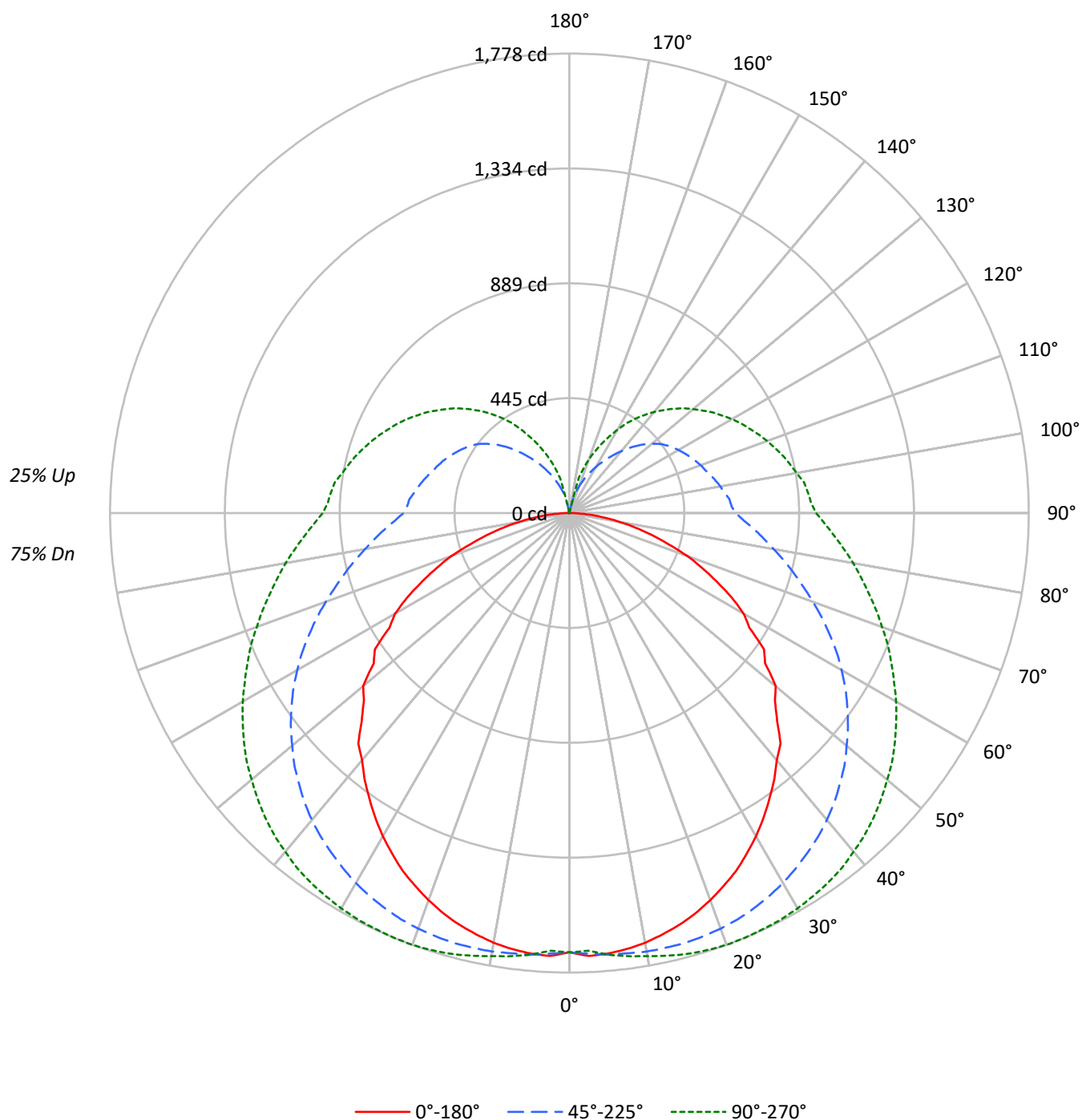
Input Watts (W): 92
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
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°	6868	6868	6868
5°	6930	6793	6736
10°	6907	6740	6699
15°	6869	6709	6713
20°	6814	6684	6726
25°	6760	6666	6736
30°	6677	6652	6773
35°	6586	6635	6819
40°	6501	6637	6863
45°	6393	6628	6918
50°	6430	6623	6973
55°	6337	6632	7055
60°	6133	6647	7151
65°	5827	6668	7284
70°	5497	6733	7489
75°	4889	6909	7792
80°	4232	7270	8293
85°	3343	7994	9027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.4	1.7
10°-20°	484.2	4.9
20°-30°	769.5	7.9
30°-40°	987.6	10.1
40°-50°	1115.2	11.4
50°-60°	1138.0	11.6
60°-70°	1054.3	10.8
70°-80°	892.6	9.1
80°-90°	712.5	7.3
90°-100°	605.0	6.2
100°-110°	539.0	5.5
110°-120°	459.1	4.7
120°-130°	364.6	3.7
130°-140°	258.7	2.6
140°-150°	154.4	1.6
150°-160°	72.0	0.7
160°-170°	17.1	0.2
170°-180°	0.0	0.0
0°-30°	1417.0	14.5
0°-40°	2404.6	24.6
0°-60°	4657.8	47.6
0°-90°	7317.1	74.8
90°-120°	1603.1	16.4
90°-150°	2380.8	24.3
90°-180°	2470.0	25.2
0°-180°	9787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1700	1700	1700	1700	1700	
5°	1711	1697	1715	1715	1715	163
15°	1649	1663	1723	1754	1766	465
25°	1527	1578	1688	1748	1776	703
35°	1350	1449	1606	1704	1746	845
45°	1136	1290	1481	1610	1665	882
55°	920	1074	1313	1474	1538	808
65°	630	840	1111	1301	1375	625
75°	331	586	899	1120	1198	353
85°	85	377	717	950	1030	93
90°	4	308	642	874	954	7
95°	0	290	621	848	927	0
105°	0	267	566	780	856	0
115°	0	248	515	701	770	0
125°	0	214	457	619	678	0
135°	0	159	368	522	570	1
145°	0	104	258	391	446	1
155°	2	64	159	239	297	1
165°	2	35	71	99	140	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°	1699.8	1699.8	1699.8	1699.8	1699.8
2.5°	1715.3	1697.3	1706.6	1704.2	1694.9
5°	1711.0	1697.3	1715.3	1715.3	1715.3
7.5°	1701.7	1692.4	1717.8	1727.1	1729.6
10°	1688.0	1688.0	1722.8	1736.4	1740.8
12.5°	1669.4	1676.2	1722.8	1743.3	1754.4
15°	1648.9	1662.6	1722.8	1754.4	1766.2
17.5°	1623.5	1646.4	1717.8	1756.9	1773.0
20°	1593.7	1628.4	1711.0	1756.9	1778.0
22.5°	1561.4	1605.5	1701.7	1752.6	1778.0
25°	1527.3	1577.6	1688.0	1747.6	1775.5
27.5°	1485.7	1550.3	1671.9	1740.8	1773.0
30°	1444.1	1518.0	1653.3	1731.5	1766.2
32.5°	1398.2	1483.2	1630.3	1717.8	1756.9
35°	1349.8	1449.1	1605.5	1704.2	1745.7
37.5°	1301.4	1407.5	1580.0	1685.5	1731.5
40°	1248.6	1365.9	1550.3	1662.6	1711.0
42.5°	1209.5	1322.5	1518.0	1639.6	1690.5
45°	1136.3	1290.2	1480.7	1609.8	1665.1
47.5°	1078.6	1228.2	1444.1	1580.0	1637.1
50°	1042.0	1177.3	1400.7	1545.3	1605.5
52.5°	954.5	1143.1	1359.1	1511.2	1575.1
55°	919.7	1074.3	1313.2	1473.9	1538.5
57.5°	825.4	1025.8	1267.3	1433.0	1499.4
60°	779.5	958.8	1216.4	1391.4	1460.3
62.5°	708.1	901.7	1166.1	1345.5	1416.8
65°	629.9	839.7	1110.9	1301.4	1375.2
67.5°	556.7	777.6	1058.1	1255.5	1333.7
70°	485.3	713.1	1002.9	1209.5	1287.7
72.5°	402.1	648.5	949.5	1166.1	1244.3
75°	331.4	586.5	899.2	1120.2	1198.4
77.5°	261.9	526.9	850.8	1078.6	1156.8
80°	198.0	469.2	802.4	1035.2	1115.2
82.5°	137.8	420.8	759.0	993.6	1071.8
85°	85.0	377.3	717.4	949.5	1030.2
87.5°	39.1	338.2	675.8	908.6	991.1
90°	4.3	308.4	641.7	873.8	954.5
92.5°	2.5	299.1	628.0	857.7	935.9
95°	0.0	289.8	621.2	848.4	926.6
97.5°	0.0	280.5	605.1	834.7	915.4
100°	0.0	276.2	593.3	814.2	892.4
102.5°	0.0	269.3	579.6	795.6	873.8
105°	0.0	266.9	566.0	779.5	855.8
107.5°	0.0	261.9	551.7	759.0	834.7
110°	0.0	257.5	540.5	740.4	814.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	253.2	528.7	722.4	793.1
115°	0.0	248.2	515.1	701.3	770.2
117.5°	0.0	241.4	501.4	680.8	749.7
120°	0.0	232.1	487.8	662.2	726.7
122.5°	0.0	222.8	473.5	639.2	701.3
125°	0.0	214.1	457.4	618.7	678.3
127.5°	0.0	199.8	439.4	595.8	651.0
130°	0.0	186.2	416.4	572.8	625.6
132.5°	2.5	172.5	393.5	547.4	600.1
135°	0.0	158.9	368.0	521.9	570.3
137.5°	0.0	147.1	340.1	494.6	540.5
140°	0.0	133.4	312.8	462.3	510.8
142.5°	0.0	117.3	285.5	427.6	478.5
145°	0.0	103.6	257.5	391.0	446.2
147.5°	2.5	91.8	232.1	351.9	411.5
150°	2.5	82.5	207.3	312.8	372.4
152.5°	2.5	73.9	181.8	276.2	333.3
155°	2.5	64.5	158.9	238.9	296.6
157.5°	2.5	55.2	133.4	202.3	257.5
160°	2.5	48.4	110.5	170.0	220.9
162.5°	2.5	41.6	90.0	133.4	181.8
165°	2.5	34.8	71.4	98.7	140.3
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)