

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: P284721

Luminaire Tested: **8SNLED-LD5-104SL-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: P284721
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-LD5-104SL-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: 8948.0 lumens
Efficiency: N/A
Efficacy: 86.9 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

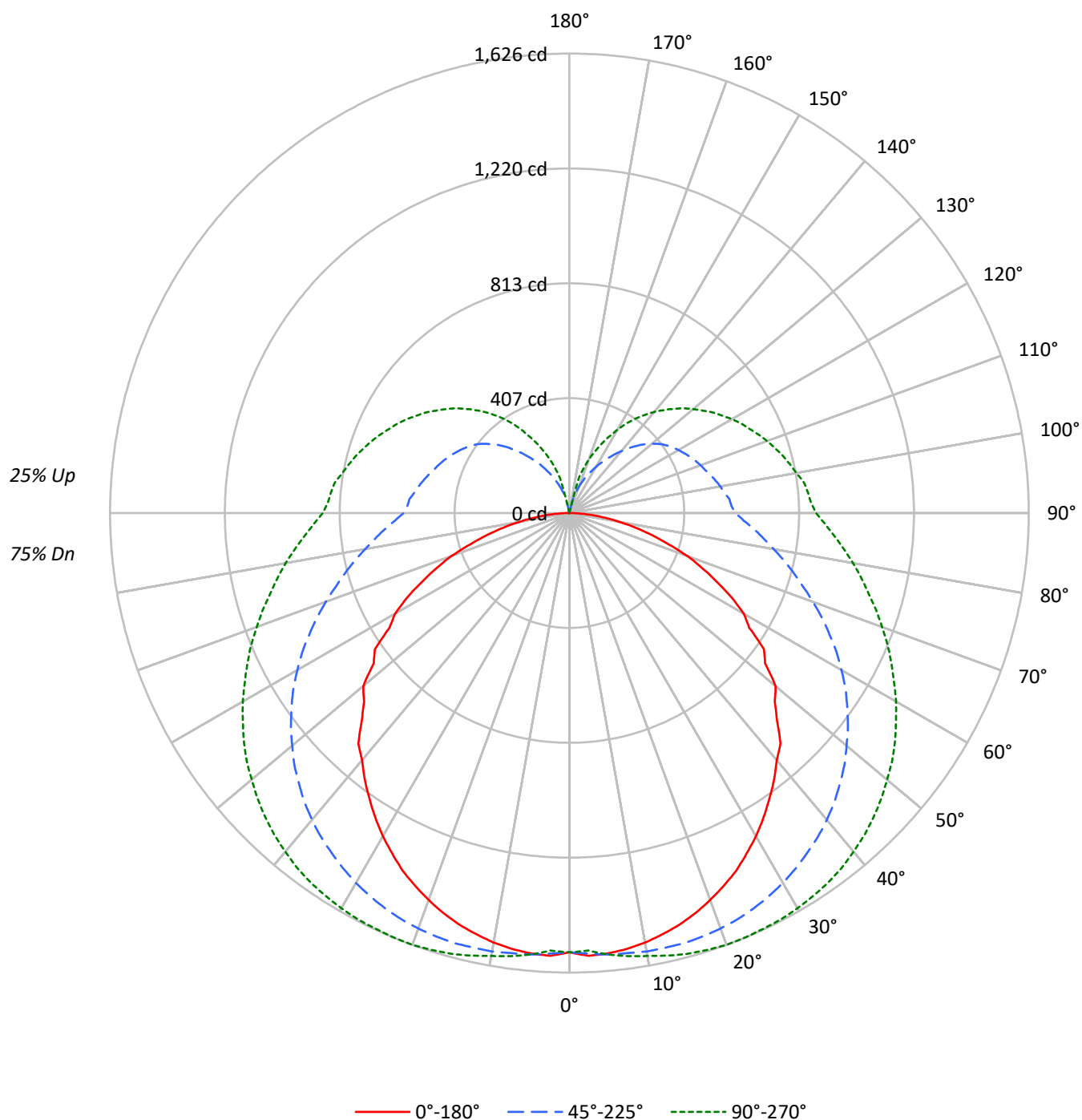
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6279	6279	6279
5°	6336	6211	6159
10°	6315	6162	6124
15°	6280	6134	6137
20°	6230	6111	6150
25°	6180	6095	6159
30°	6105	6081	6192
35°	6021	6066	6234
40°	5943	6068	6275
45°	5845	6060	6325
50°	5879	6055	6375
55°	5794	6063	6451
60°	5607	6077	6538
65°	5327	6096	6660
70°	5026	6156	6847
75°	4470	6317	7124
80°	3869	6647	7582
85°	3056	7309	8254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	1.7
10°-20°	442.6	4.9
20°-30°	703.5	7.9
30°-40°	902.9	10.1
40°-50°	1019.6	11.4
50°-60°	1040.4	11.6
60°-70°	963.9	10.8
70°-80°	816.0	9.1
80°-90°	651.4	7.3
90°-100°	553.1	6.2
100°-110°	492.8	5.5
110°-120°	419.7	4.7
120°-130°	333.4	3.7
130°-140°	236.5	2.6
140°-150°	141.2	1.6
150°-160°	65.8	0.7
160°-170°	15.6	0.2
170°-180°	0.0	0.0
0°-30°	1295.5	14.5
0°-40°	2198.5	24.6
0°-60°	4258.5	47.6
0°-90°	6689.8	74.8
90°-120°	1465.6	16.4
90°-150°	2176.7	24.3
90°-180°	2258.0	25.2
0°-180°	8948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1564	1552	1568	1568	1568	149
15°	1508	1520	1575	1604	1615	425
25°	1396	1442	1543	1598	1623	643
35°	1234	1325	1468	1558	1596	773
45°	1039	1180	1354	1472	1522	807
55°	841	982	1201	1348	1407	738
65°	576	768	1016	1190	1257	572
75°	303	536	822	1024	1096	322
85°	78	345	656	868	942	85
90°	4	282	587	799	873	6
95°	0	265	568	776	847	0
105°	0	244	518	713	782	0
115°	0	227	471	641	704	0
125°	0	196	418	566	620	0
135°	0	145	336	477	521	0
145°	0	95	236	358	408	1
155°	2	59	145	218	271	1
165°	2	32	65	90	128	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°	1554.1	1554.1	1554.1	1554.1	1554.1
2.5°	1568.3	1551.8	1560.3	1558.1	1549.6
5°	1564.3	1551.8	1568.3	1568.3	1568.3
7.5°	1555.8	1547.3	1570.6	1579.1	1581.3
10°	1543.3	1543.3	1575.1	1587.6	1591.5
12.5°	1526.3	1532.5	1575.1	1593.8	1604.0
15°	1507.6	1520.1	1575.1	1604.0	1614.8
17.5°	1484.3	1505.3	1570.6	1606.3	1621.1
20°	1457.1	1488.8	1564.3	1606.3	1625.6
22.5°	1427.6	1467.9	1555.8	1602.3	1625.6
25°	1396.4	1442.3	1543.3	1597.8	1623.3
27.5°	1358.3	1417.4	1528.6	1591.5	1621.1
30°	1320.3	1387.9	1511.5	1583.0	1614.8
32.5°	1278.3	1356.1	1490.6	1570.6	1606.3
35°	1234.1	1324.9	1467.9	1558.1	1596.1
37.5°	1189.8	1286.9	1444.6	1541.0	1583.0
40°	1141.6	1248.8	1417.4	1520.1	1564.3
42.5°	1105.9	1209.1	1387.9	1499.1	1545.6
45°	1038.9	1179.6	1353.8	1471.8	1522.3
47.5°	986.1	1122.9	1320.3	1444.6	1496.8
50°	952.7	1076.4	1280.6	1412.8	1467.9
52.5°	872.7	1045.1	1242.6	1381.6	1440.1
55°	840.9	982.2	1200.6	1347.6	1406.6
57.5°	754.6	937.9	1158.6	1310.1	1370.8
60°	712.6	876.6	1112.1	1272.1	1335.1
62.5°	647.4	824.4	1066.1	1230.1	1295.4
65°	575.9	767.7	1015.6	1189.8	1257.4
67.5°	509.0	710.9	967.4	1147.8	1219.3
70°	443.7	651.9	916.9	1105.9	1177.3
72.5°	367.7	592.9	868.1	1066.1	1137.6
75°	303.0	536.2	822.2	1024.2	1095.6
77.5°	239.4	481.7	777.9	986.1	1057.6
80°	181.0	429.0	733.6	946.4	1019.6
82.5°	126.0	384.7	693.9	908.4	979.9
85°	77.7	345.0	655.9	868.1	941.9
87.5°	35.7	309.2	617.9	830.7	906.1
90°	4.0	282.0	586.7	798.9	872.7
92.5°	2.3	273.5	574.2	784.1	855.6
95°	0.0	265.0	568.0	775.6	847.1
97.5°	0.0	256.5	553.2	763.1	836.9
100°	0.0	252.5	542.4	744.4	815.9
102.5°	0.0	246.3	529.9	727.4	798.9
105°	0.0	244.0	517.5	712.6	782.4
107.5°	0.0	239.4	504.4	693.9	763.1
110°	0.0	235.5	494.2	676.9	744.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	231.5	483.4	660.4	725.1
115°	0.0	227.0	470.9	641.2	704.1
117.5°	0.0	220.7	458.5	622.4	685.4
120°	0.0	212.2	446.0	605.4	664.4
122.5°	0.0	203.7	432.9	584.4	641.2
125°	0.0	195.8	418.2	565.7	620.2
127.5°	0.0	182.7	401.7	544.7	595.2
130°	0.0	170.2	380.7	523.7	571.9
132.5°	2.3	157.7	359.7	500.4	548.7
135°	0.0	145.3	336.5	477.2	521.4
137.5°	0.0	134.5	310.9	452.2	494.2
140°	0.0	122.0	286.0	422.7	467.0
142.5°	0.0	107.2	261.0	390.9	437.5
145°	0.0	94.8	235.5	357.5	408.0
147.5°	2.3	84.0	212.2	321.7	376.2
150°	2.3	75.5	189.5	286.0	340.4
152.5°	2.3	67.5	166.2	252.5	304.7
155°	2.3	59.0	145.3	218.4	271.2
157.5°	2.3	50.5	122.0	185.0	235.5
160°	2.3	44.3	101.0	155.5	202.0
162.5°	2.3	38.0	82.3	122.0	166.2
165°	2.3	31.8	65.3	90.2	128.2
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)