

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: P284643

Luminaire Tested: **8SNLED-LD5-104SL-SLW-UNV-L930-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: P284643
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-L930-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: 8235.0 lumens
Efficiency: N/A
Efficacy: 80.0 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

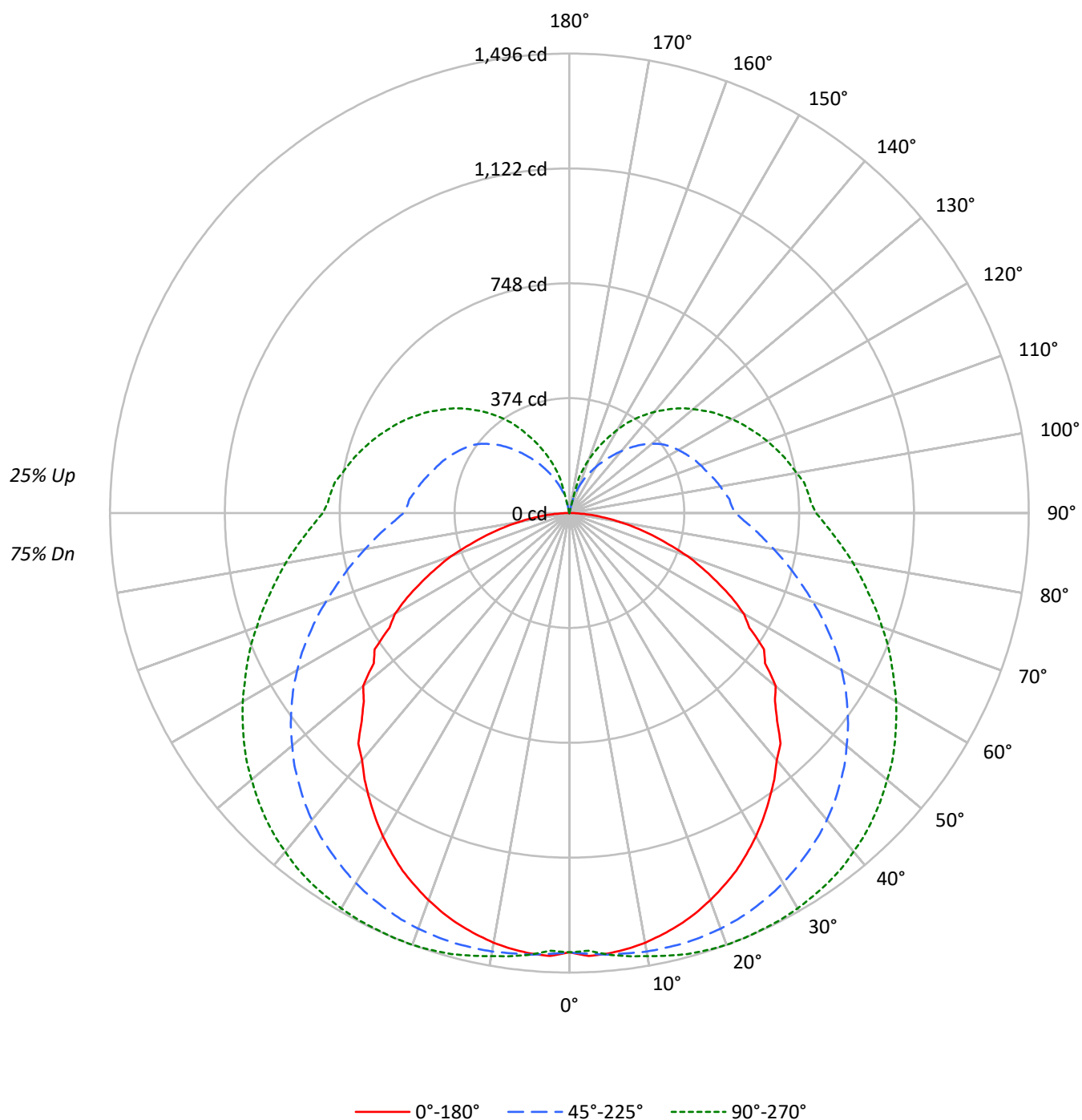
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5779	5779	5779
5°	5831	5716	5668
10°	5811	5671	5636
15°	5779	5646	5648
20°	5733	5624	5660
25°	5688	5609	5668
30°	5618	5597	5699
35°	5542	5583	5737
40°	5470	5585	5775
45°	5379	5577	5821
50°	5410	5572	5867
55°	5333	5580	5936
60°	5161	5593	6017
65°	4903	5610	6129
70°	4625	5666	6301
75°	4113	5813	6556
80°	3561	6118	6979
85°	2812	6726	7596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	1.7
10°-20°	407.4	4.9
20°-30°	647.5	7.9
30°-40°	831.0	10.1
40°-50°	938.4	11.4
50°-60°	957.5	11.6
60°-70°	887.1	10.8
70°-80°	751.0	9.1
80°-90°	599.5	7.3
90°-100°	509.1	6.2
100°-110°	453.5	5.5
110°-120°	386.3	4.7
120°-130°	306.8	3.7
130°-140°	217.7	2.6
140°-150°	130.0	1.6
150°-160°	60.6	0.7
160°-170°	14.4	0.2
170°-180°	0.0	0.0
0°-30°	1192.3	14.5
0°-40°	2023.3	24.6
0°-60°	3919.2	47.6
0°-90°	6156.7	74.8
90°-120°	1348.9	16.4
90°-150°	2003.3	24.3
90°-180°	2078.0	25.2
0°-180°	8235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1440	1428	1443	1443	1443	137
15°	1387	1399	1450	1476	1486	391
25°	1285	1327	1420	1470	1494	592
35°	1136	1219	1351	1434	1469	711
45°	956	1086	1246	1354	1401	742
55°	774	904	1105	1240	1294	679
65°	530	706	935	1095	1157	526
75°	279	494	757	942	1008	297
85°	72	318	604	799	867	78
90°	4	260	540	735	803	6
95°	0	244	523	714	780	0
105°	0	224	476	656	720	0
115°	0	209	433	590	648	0
125°	0	180	385	521	571	0
135°	0	134	310	439	480	0
145°	0	87	217	329	376	1
155°	2	54	134	201	250	1
165°	2	29	60	83	118	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°	1430.3	1430.3	1430.3	1430.3	1430.3
2.5°	1443.3	1428.2	1436.0	1433.9	1426.1
5°	1439.7	1428.2	1443.3	1443.3	1443.3
7.5°	1431.8	1424.0	1445.4	1453.2	1455.3
10°	1420.3	1420.3	1449.6	1461.1	1464.7
12.5°	1404.7	1410.4	1449.6	1466.8	1476.2
15°	1387.4	1398.9	1449.6	1476.2	1486.1
17.5°	1366.0	1385.4	1445.4	1478.3	1491.9
20°	1341.0	1370.2	1439.7	1478.3	1496.1
22.5°	1313.8	1350.9	1431.8	1474.6	1496.1
25°	1285.1	1327.4	1420.3	1470.5	1494.0
27.5°	1250.1	1304.4	1406.8	1464.7	1491.9
30°	1215.1	1277.3	1391.1	1456.9	1486.1
32.5°	1176.5	1248.0	1371.8	1445.4	1478.3
35°	1135.8	1219.3	1350.9	1433.9	1468.9
37.5°	1095.0	1184.3	1329.5	1418.3	1456.9
40°	1050.6	1149.3	1304.4	1398.9	1439.7
42.5°	1017.7	1112.8	1277.3	1379.6	1422.4
45°	956.1	1085.6	1245.9	1354.5	1401.0
47.5°	907.6	1033.4	1215.1	1329.5	1377.5
50°	876.7	990.6	1178.6	1300.2	1350.9
52.5°	803.1	961.9	1143.6	1271.5	1325.3
55°	773.9	903.9	1104.9	1240.2	1294.5
57.5°	694.5	863.2	1066.3	1205.7	1261.6
60°	655.9	806.8	1023.5	1170.7	1228.7
62.5°	595.8	758.7	981.2	1132.1	1192.1
65°	530.0	706.5	934.7	1095.0	1157.2
67.5°	468.4	654.3	890.3	1056.4	1122.2
70°	408.3	600.0	843.9	1017.7	1083.5
72.5°	338.4	545.7	798.9	981.2	1047.0
75°	278.8	493.5	756.6	942.5	1008.3
77.5°	220.4	443.3	715.9	907.6	973.4
80°	166.6	394.8	675.2	871.0	938.4
82.5°	115.9	354.0	638.6	836.0	901.8
85°	71.5	317.5	603.6	798.9	866.8
87.5°	32.9	284.6	568.7	764.5	833.9
90°	3.7	259.5	539.9	735.2	803.1
92.5°	2.1	251.7	528.5	721.7	787.5
95°	0.0	243.9	522.7	713.8	779.6
97.5°	0.0	236.0	509.1	702.3	770.2
100°	0.0	232.4	499.2	685.1	750.9
102.5°	0.0	226.6	487.7	669.4	735.2
105°	0.0	224.5	476.2	655.9	720.1
107.5°	0.0	220.4	464.2	638.6	702.3
110°	0.0	216.7	454.8	623.0	685.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	213.1	444.9	607.8	667.4
115°	0.0	208.9	433.4	590.1	648.0
117.5°	0.0	203.1	421.9	572.8	630.8
120°	0.0	195.3	410.4	557.2	611.5
122.5°	0.0	187.5	398.4	537.9	590.1
125°	0.0	180.2	384.9	520.6	570.7
127.5°	0.0	168.1	369.7	501.3	547.8
130°	0.0	156.7	350.4	482.0	526.4
132.5°	2.1	145.2	331.1	460.6	505.0
135°	0.0	133.7	309.7	439.2	479.9
137.5°	0.0	123.8	286.2	416.2	454.8
140°	0.0	112.3	263.2	389.0	429.8
142.5°	0.0	98.7	240.2	359.8	402.6
145°	0.0	87.2	216.7	329.0	375.5
147.5°	2.1	77.3	195.3	296.1	346.2
150°	2.1	69.5	174.4	263.2	313.3
152.5°	2.1	62.1	153.0	232.4	280.4
155°	2.1	54.3	133.7	201.0	249.6
157.5°	2.1	46.5	112.3	170.2	216.7
160°	2.1	40.7	92.9	143.1	185.9
162.5°	2.1	35.0	75.7	112.3	153.0
165°	2.1	29.2	60.1	83.0	118.0
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)