

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: P284682

Luminaire Tested: **8SNLED-LD5-104SL-SLW-UNV-L935-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: P284682
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-L935-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: 8741.0 lumens
Efficiency: N/A
Efficacy: 84.9 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

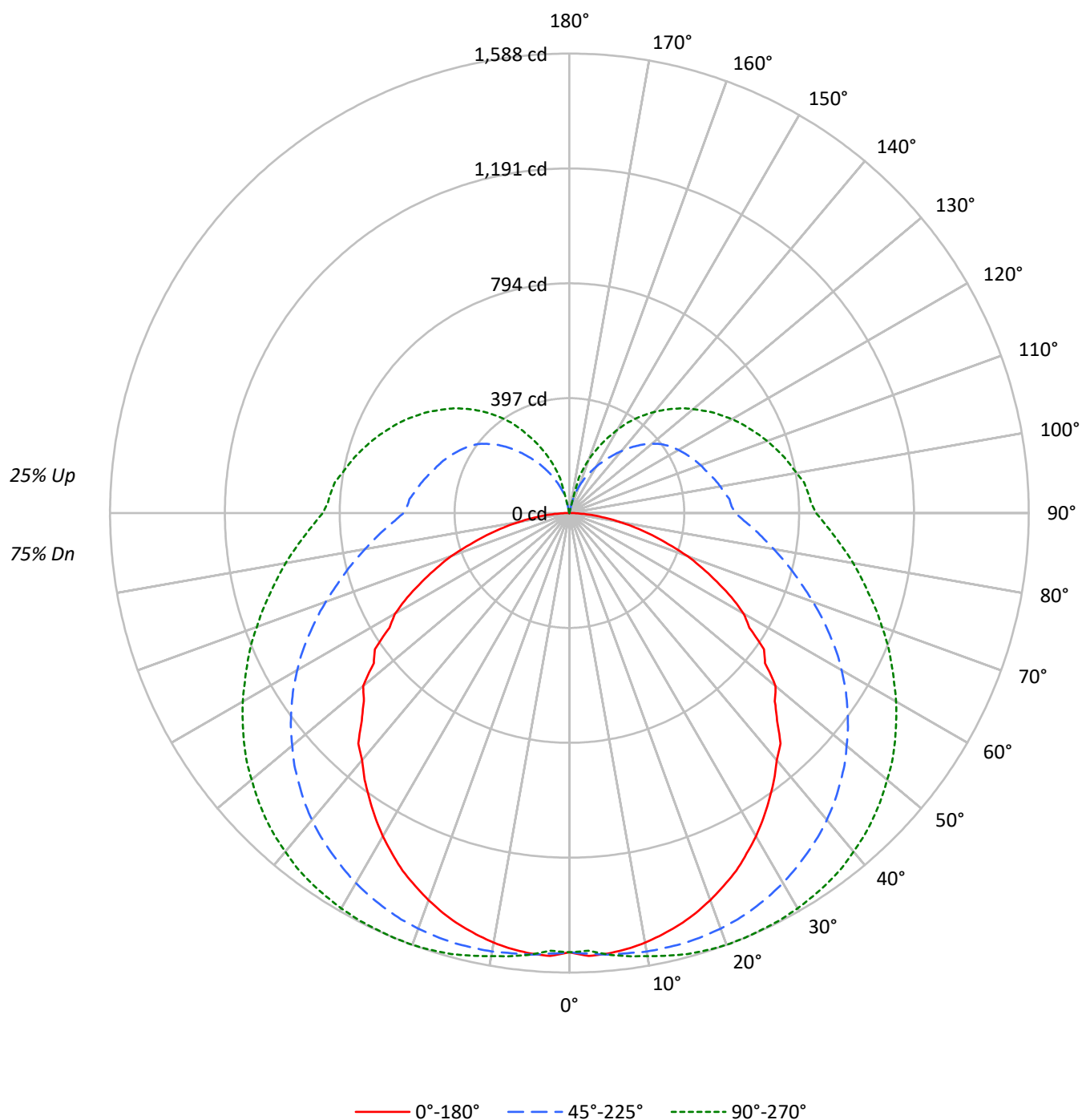
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6134	6134	6134
5°	6189	6067	6016
10°	6168	6020	5983
15°	6135	5993	5996
20°	6086	5970	6007
25°	6037	5954	6017
30°	5964	5941	6049
35°	5882	5926	6090
40°	5806	5928	6129
45°	5710	5920	6178
50°	5743	5915	6227
55°	5660	5923	6301
60°	5478	5936	6387
65°	5204	5955	6506
70°	4909	6014	6689
75°	4366	6171	6959
80°	3779	6494	7407
85°	2986	7140	8063



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	1.7
10°-20°	432.4	4.9
20°-30°	687.3	7.9
30°-40°	882.0	10.1
40°-50°	996.0	11.4
50°-60°	1016.3	11.6
60°-70°	941.6	10.8
70°-80°	797.2	9.1
80°-90°	636.3	7.3
90°-100°	540.3	6.2
100°-110°	481.4	5.5
110°-120°	410.0	4.7
120°-130°	325.6	3.7
130°-140°	231.0	2.6
140°-150°	137.9	1.6
150°-160°	64.3	0.7
160°-170°	15.3	0.2
170°-180°	0.0	0.0
0°-30°	1265.6	14.5
0°-40°	2147.6	24.6
0°-60°	4160.0	47.6
0°-90°	6535.0	74.8
90°-120°	1431.7	16.4
90°-150°	2126.4	24.3
90°-180°	2206.0	25.2
0°-180°	8741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1518	1518	1518	1518	1518	
5°	1528	1516	1532	1532	1532	145
15°	1473	1485	1539	1567	1578	415
25°	1364	1409	1508	1561	1586	628
35°	1206	1294	1434	1522	1559	755
45°	1015	1152	1322	1438	1487	788
55°	821	959	1173	1316	1374	721
65°	563	750	992	1162	1228	558
75°	296	524	803	1000	1070	315
85°	76	337	641	848	920	83
90°	4	276	573	780	852	6
95°	0	259	555	758	828	0
105°	0	238	506	696	764	0
115°	0	222	460	626	688	0
125°	0	191	408	553	606	0
135°	0	142	329	466	509	0
145°	0	93	230	349	398	1
155°	2	58	142	213	265	1
165°	2	31	64	88	125	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°	1518.1	1518.1	1518.1	1518.1	1518.1
2.5°	1532.0	1515.9	1524.2	1522.0	1513.7
5°	1528.1	1515.9	1532.0	1532.0	1532.0
7.5°	1519.8	1511.5	1534.2	1542.5	1544.8
10°	1507.6	1507.6	1538.7	1550.8	1554.7
12.5°	1491.0	1497.1	1538.7	1556.9	1566.9
15°	1472.7	1484.9	1538.7	1566.9	1577.5
17.5°	1450.0	1470.5	1534.2	1569.1	1583.6
20°	1423.4	1454.4	1528.1	1569.1	1588.0
22.5°	1394.5	1433.9	1519.8	1565.3	1588.0
25°	1364.1	1409.0	1507.6	1560.8	1585.8
27.5°	1326.9	1384.6	1493.2	1554.7	1583.6
30°	1289.8	1355.7	1476.6	1546.4	1577.5
32.5°	1248.8	1324.7	1456.1	1534.2	1569.1
35°	1205.5	1294.2	1433.9	1522.0	1559.2
37.5°	1162.3	1257.1	1411.2	1505.4	1546.4
40°	1115.2	1219.9	1384.6	1484.9	1528.1
42.5°	1080.3	1181.2	1355.7	1464.4	1509.8
45°	1014.9	1152.3	1322.5	1437.8	1487.1
47.5°	963.3	1096.9	1289.8	1411.2	1462.2
50°	930.6	1051.5	1251.0	1380.1	1433.9
52.5°	852.5	1021.0	1213.9	1349.6	1406.7
55°	821.4	959.4	1172.8	1316.4	1374.0
57.5°	737.2	916.2	1131.8	1279.8	1339.1
60°	696.2	856.3	1086.4	1242.7	1304.2
62.5°	632.4	805.4	1041.5	1201.7	1265.4
65°	562.6	749.9	992.1	1162.3	1228.3
67.5°	497.2	694.5	945.0	1121.3	1191.1
70°	433.4	636.9	895.7	1080.3	1150.1
72.5°	359.2	579.2	848.0	1041.5	1111.3
75°	296.0	523.8	803.1	1000.5	1070.3
77.5°	233.9	470.6	759.9	963.3	1033.2
80°	176.8	419.0	716.7	924.5	996.0
82.5°	123.0	375.8	677.9	887.4	957.2
85°	75.9	337.0	640.7	848.0	920.1
87.5°	34.9	302.1	603.6	811.5	885.2
90°	3.9	275.5	573.1	780.4	852.5
92.5°	2.2	267.2	560.9	766.0	835.8
95°	0.0	258.8	554.8	757.7	827.5
97.5°	0.0	250.5	540.4	745.5	817.5
100°	0.0	246.7	529.9	727.2	797.0
102.5°	0.0	240.6	517.7	710.6	780.4
105°	0.0	238.3	505.5	696.2	764.3
107.5°	0.0	233.9	492.7	677.9	745.5
110°	0.0	230.0	482.8	661.2	727.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	226.1	472.2	645.2	708.4
115°	0.0	221.7	460.0	626.3	687.8
117.5°	0.0	215.6	447.9	608.0	669.6
120°	0.0	207.3	435.7	591.4	649.1
122.5°	0.0	199.0	422.9	570.9	626.3
125°	0.0	191.2	408.5	552.6	605.8
127.5°	0.0	178.5	392.4	532.1	581.4
130°	0.0	166.3	371.9	511.6	558.7
132.5°	2.2	154.1	351.4	488.9	536.0
135°	0.0	141.9	328.7	466.1	509.4
137.5°	0.0	131.4	303.7	441.8	482.8
140°	0.0	119.2	279.4	412.9	456.2
142.5°	0.0	104.8	255.0	381.9	427.3
145°	0.0	92.6	230.0	349.2	398.5
147.5°	2.2	82.0	207.3	314.3	367.5
150°	2.2	73.7	185.1	279.4	332.6
152.5°	2.2	66.0	162.4	246.7	297.6
155°	2.2	57.6	141.9	213.4	264.9
157.5°	2.2	49.3	119.2	180.7	230.0
160°	2.2	43.2	98.7	151.9	197.3
162.5°	2.2	37.1	80.4	119.2	162.4
165°	2.2	31.0	63.7	88.1	125.3
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)