

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: P284644

Luminaire Tested: **8SNLED-LD5-108SL-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: P284644
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-LD5-108SL-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: 8586.0 lumens
Efficiency: N/A
Efficacy: 78.1 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

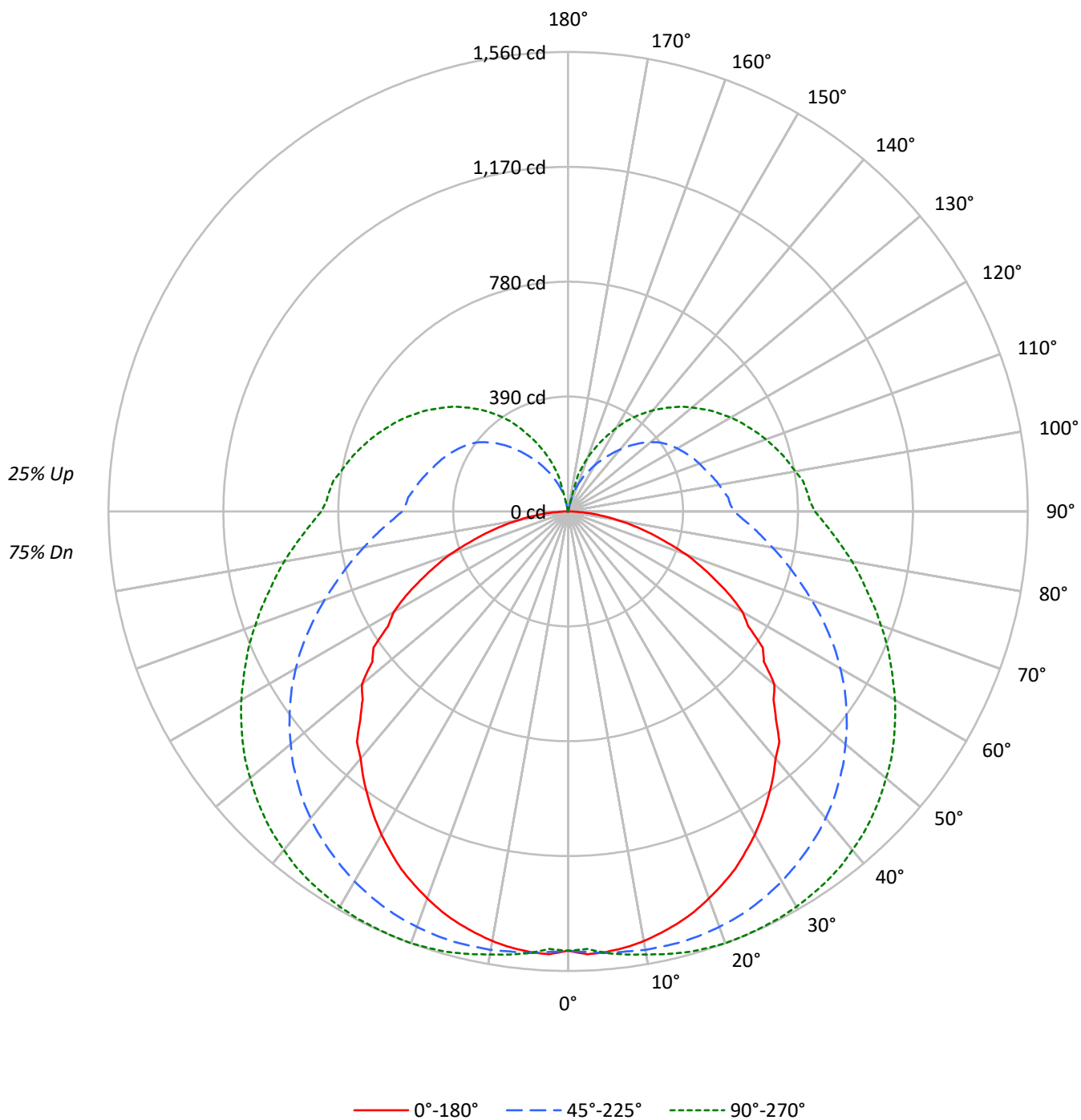
Input Watts (W): 110
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6025	6025	6025
5°	6080	5959	5909
10°	6059	5913	5877
15°	6026	5886	5889
20°	5978	5864	5901
25°	5930	5848	5910
30°	5858	5835	5942
35°	5778	5821	5982
40°	5703	5823	6021
45°	5609	5815	6069
50°	5641	5810	6117
55°	5560	5818	6190
60°	5380	5831	6274
65°	5112	5850	6391
70°	4823	5907	6570
75°	4288	6061	6836
80°	3713	6379	7276
85°	2934	7014	7920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	1.7
10°-20°	424.7	4.9
20°-30°	675.1	7.9
30°-40°	866.4	10.1
40°-50°	978.4	11.4
50°-60°	998.3	11.6
60°-70°	924.9	10.8
70°-80°	783.0	9.1
80°-90°	625.0	7.3
90°-100°	530.8	6.2
100°-110°	472.9	5.5
110°-120°	402.7	4.7
120°-130°	319.9	3.7
130°-140°	227.0	2.6
140°-150°	135.5	1.6
150°-160°	63.2	0.7
160°-170°	15.0	0.2
170°-180°	0.0	0.0
0°-30°	1243.1	14.5
0°-40°	2109.5	24.6
0°-60°	4086.2	47.6
0°-90°	6419.1	74.8
90°-120°	1406.4	16.4
90°-150°	2088.7	24.3
90°-180°	2167.0	25.2
0°-180°	8586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1501	1489	1505	1505	1505	143
15°	1447	1459	1511	1539	1550	408
25°	1340	1384	1481	1533	1558	617
35°	1184	1271	1408	1495	1532	741
45°	997	1132	1299	1412	1461	774
55°	807	942	1152	1293	1350	708
65°	553	737	975	1142	1206	549
75°	291	514	789	983	1051	309
85°	75	331	629	833	904	81
90°	4	271	563	767	837	6
95°	0	254	545	744	813	0
105°	0	234	496	684	751	0
115°	0	218	452	615	676	0
125°	0	188	401	543	595	0
135°	0	139	323	458	500	0
145°	0	91	226	343	392	1
155°	2	57	139	210	260	1
165°	2	30	63	87	123	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°	1491.2	1491.2	1491.2	1491.2	1491.2
2.5°	1504.8	1489.0	1497.2	1495.0	1486.9
5°	1501.0	1489.0	1504.8	1504.8	1504.8
7.5°	1492.9	1484.7	1507.0	1515.2	1517.4
10°	1480.9	1480.9	1511.4	1523.3	1527.2
12.5°	1464.5	1470.5	1511.4	1529.3	1539.1
15°	1446.6	1458.6	1511.4	1539.1	1549.5
17.5°	1424.3	1444.4	1507.0	1541.3	1555.5
20°	1398.1	1428.6	1501.0	1541.3	1559.8
22.5°	1369.8	1408.5	1492.9	1537.5	1559.8
25°	1339.9	1384.0	1480.9	1533.1	1557.6
27.5°	1303.4	1360.0	1466.7	1527.2	1555.5
30°	1266.9	1331.7	1450.4	1519.0	1549.5
32.5°	1226.6	1301.2	1430.2	1507.0	1541.3
35°	1184.2	1271.3	1408.5	1495.0	1531.5
37.5°	1141.7	1234.8	1386.1	1478.7	1519.0
40°	1095.4	1198.3	1360.0	1458.6	1501.0
42.5°	1061.1	1160.2	1331.7	1438.4	1483.1
45°	996.9	1131.9	1299.0	1412.3	1460.7
47.5°	946.2	1077.5	1266.9	1386.1	1436.2
50°	914.1	1032.8	1228.8	1355.7	1408.5
52.5°	837.4	1002.9	1192.3	1325.7	1381.8
55°	806.9	942.4	1152.0	1293.0	1349.7
57.5°	724.1	900.0	1111.8	1257.1	1315.4
60°	683.8	841.2	1067.1	1220.6	1281.1
62.5°	621.2	791.1	1023.0	1180.3	1243.0
65°	552.6	736.6	974.6	1141.7	1206.5
67.5°	488.4	682.2	928.3	1101.4	1170.0
70°	425.8	625.6	879.8	1061.1	1129.7
72.5°	352.8	568.9	833.0	1023.0	1091.6
75°	290.7	514.5	788.9	982.7	1051.3
77.5°	229.8	462.2	746.4	946.2	1014.8
80°	173.7	411.6	704.0	908.1	978.4
82.5°	120.9	369.1	665.9	871.7	940.3
85°	74.6	331.0	629.4	833.0	903.8
87.5°	34.3	296.7	592.9	797.1	869.5
90°	3.8	270.6	563.0	766.6	837.4
92.5°	2.2	262.4	551.0	752.4	821.0
95°	0.0	254.3	545.0	744.3	812.9
97.5°	0.0	246.1	530.8	732.3	803.1
100°	0.0	242.3	520.5	714.3	782.9
102.5°	0.0	236.3	508.5	698.0	766.6
105°	0.0	234.1	496.5	683.8	750.8
107.5°	0.0	229.8	484.0	665.9	732.3
110°	0.0	225.9	474.2	649.5	714.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	222.1	463.9	633.7	695.8
115°	0.0	217.8	451.9	615.2	675.7
117.5°	0.0	211.8	439.9	597.3	657.7
120°	0.0	203.6	427.9	580.9	637.5
122.5°	0.0	195.5	415.4	560.8	615.2
125°	0.0	187.8	401.3	542.8	595.1
127.5°	0.0	175.3	385.5	522.7	571.1
130°	0.0	163.3	365.3	502.5	548.8
132.5°	2.2	151.4	345.2	480.2	526.5
135°	0.0	139.4	322.9	457.9	500.3
137.5°	0.0	129.0	298.4	433.9	474.2
140°	0.0	117.1	274.4	405.6	448.1
142.5°	0.0	102.9	250.4	375.1	419.8
145°	0.0	90.9	225.9	343.0	391.5
147.5°	2.2	80.6	203.6	308.7	361.0
150°	2.2	72.4	181.8	274.4	326.7
152.5°	2.2	64.8	159.5	242.3	292.4
155°	2.2	56.6	139.4	209.6	260.2
157.5°	2.2	48.5	117.1	177.5	225.9
160°	2.2	42.5	96.9	149.2	193.8
162.5°	2.2	36.5	78.9	117.1	159.5
165°	2.2	30.5	62.6	86.6	123.0
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)