

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: P284720

Luminaire Tested: **8SNLED-LD5-96SL-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: P284720
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-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: 8275.0 lumens
Efficiency: N/A
Efficacy: 89.9 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

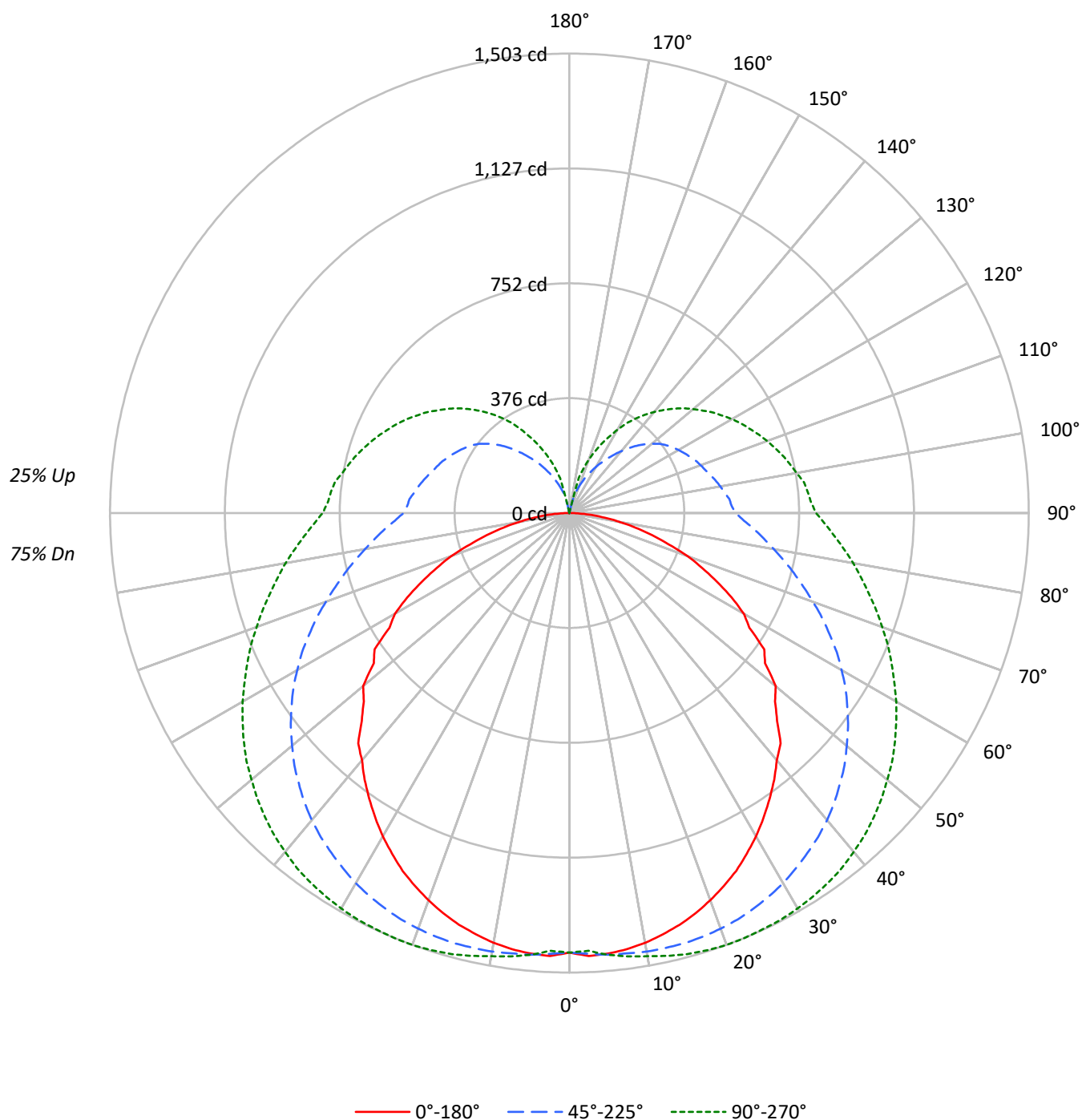
Input Watts (W): 92
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5807	5807	5807
5°	5860	5743	5695
10°	5839	5698	5664
15°	5808	5673	5676
20°	5761	5652	5687
25°	5715	5636	5696
30°	5646	5624	5727
35°	5569	5610	5765
40°	5496	5612	5803
45°	5406	5605	5849
50°	5437	5599	5896
55°	5358	5607	5965
60°	5185	5620	6046
65°	4927	5638	6159
70°	4648	5693	6332
75°	4133	5842	6588
80°	3578	6148	7012
85°	2828	6760	7632



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	1.7
10°-20°	409.4	4.9
20°-30°	650.6	7.9
30°-40°	835.0	10.1
40°-50°	942.9	11.4
50°-60°	962.2	11.6
60°-70°	891.4	10.8
70°-80°	754.7	9.1
80°-90°	602.4	7.3
90°-100°	511.5	6.2
100°-110°	455.7	5.5
110°-120°	388.1	4.7
120°-130°	308.3	3.7
130°-140°	218.7	2.6
140°-150°	130.6	1.6
150°-160°	60.9	0.7
160°-170°	14.5	0.2
170°-180°	0.0	0.0
0°-30°	1198.1	14.5
0°-40°	2033.1	24.6
0°-60°	3938.2	47.6
0°-90°	6186.6	74.8
90°-120°	1355.4	16.4
90°-150°	2013.0	24.3
90°-180°	2088.0	25.2
0°-180°	8275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1447	1435	1450	1450	1450	137
15°	1394	1406	1457	1483	1493	393
25°	1291	1334	1427	1478	1501	594
35°	1141	1225	1358	1441	1476	714
45°	961	1091	1252	1361	1408	746
55°	778	908	1110	1246	1301	683
65°	533	710	939	1100	1163	529
75°	280	496	760	947	1013	298
85°	72	319	607	803	871	78
90°	4	261	543	739	807	6
95°	0	245	525	717	783	0
105°	0	226	478	659	724	0
115°	0	210	436	593	651	0
125°	0	181	387	523	574	0
135°	0	134	311	441	482	0
145°	0	88	218	331	377	1
155°	2	55	134	202	251	1
165°	2	29	60	83	119	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: 8SNLED-LD5-96SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437.2	1437.2	1437.2	1437.2	1437.2
2.5°	1450.3	1435.1	1443.0	1440.9	1433.0
5°	1446.7	1435.1	1450.3	1450.3	1450.3
7.5°	1438.8	1430.9	1452.4	1460.3	1462.4
10°	1427.2	1427.2	1456.6	1468.2	1471.8
12.5°	1411.5	1417.3	1456.6	1473.9	1483.4
15°	1394.2	1405.7	1456.6	1483.4	1493.4
17.5°	1372.7	1392.1	1452.4	1485.5	1499.1
20°	1347.5	1376.9	1446.7	1485.5	1503.3
22.5°	1320.2	1357.5	1438.8	1481.8	1503.3
25°	1291.3	1333.8	1427.2	1477.6	1501.2
27.5°	1256.2	1310.8	1413.6	1471.8	1499.1
30°	1221.0	1283.5	1397.9	1464.0	1493.4
32.5°	1182.2	1254.1	1378.4	1452.4	1485.5
35°	1141.3	1225.2	1357.5	1440.9	1476.0
37.5°	1100.3	1190.1	1335.9	1425.1	1464.0
40°	1055.7	1154.9	1310.8	1405.7	1446.7
42.5°	1022.7	1118.2	1283.5	1386.3	1429.3
45°	960.8	1090.9	1252.0	1361.1	1407.8
47.5°	912.0	1038.4	1221.0	1335.9	1384.2
50°	881.0	995.4	1184.3	1306.6	1357.5
52.5°	807.0	966.5	1149.1	1277.7	1331.7
55°	777.6	908.3	1110.3	1246.2	1300.8
57.5°	697.9	867.4	1071.5	1211.6	1267.7
60°	659.0	810.7	1028.5	1176.4	1234.7
62.5°	598.7	762.4	986.0	1137.6	1197.9
65°	532.6	709.9	939.3	1100.3	1162.8
67.5°	470.7	657.5	894.6	1061.5	1127.6
70°	410.3	602.9	847.9	1022.7	1088.8
72.5°	340.0	548.3	802.8	986.0	1052.1
75°	280.2	495.9	760.3	947.1	1013.2
77.5°	221.4	445.5	719.4	912.0	978.1
80°	167.4	396.7	678.5	875.2	942.9
82.5°	116.5	355.8	641.7	840.1	906.2
85°	71.9	319.0	606.6	802.8	871.0
87.5°	33.1	286.0	571.4	768.2	838.0
90°	3.7	260.8	542.6	738.8	807.0
92.5°	2.1	252.9	531.0	725.2	791.3
95°	0.0	245.0	525.2	717.3	783.4
97.5°	0.0	237.2	511.6	705.7	774.0
100°	0.0	233.5	501.6	688.4	754.5
102.5°	0.0	227.7	490.1	672.7	738.8
105°	0.0	225.6	478.5	659.0	723.6
107.5°	0.0	221.4	466.5	641.7	705.7
110°	0.0	217.8	457.0	626.0	688.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	214.1	447.1	610.8	670.6
115°	0.0	209.9	435.5	592.9	651.2
117.5°	0.0	204.1	424.0	575.6	633.9
120°	0.0	196.2	412.4	559.9	614.4
122.5°	0.0	188.4	400.4	540.5	592.9
125°	0.0	181.0	386.7	523.1	573.5
127.5°	0.0	169.0	371.5	503.7	550.4
130°	0.0	157.4	352.1	484.3	528.9
132.5°	2.1	145.9	332.7	462.8	507.4
135°	0.0	134.3	311.2	441.3	482.2
137.5°	0.0	124.4	287.5	418.2	457.0
140°	0.0	112.8	264.5	390.9	431.8
142.5°	0.0	99.2	241.4	361.5	404.6
145°	0.0	87.6	217.8	330.6	377.3
147.5°	2.1	77.7	196.2	297.5	347.9
150°	2.1	69.8	175.3	264.5	314.8
152.5°	2.1	62.4	153.7	233.5	281.8
155°	2.1	54.6	134.3	202.0	250.8
157.5°	2.1	46.7	112.8	171.1	217.8
160°	2.1	40.9	93.4	143.8	186.8
162.5°	2.1	35.2	76.1	112.8	153.7
165°	2.1	29.4	60.3	83.4	118.6
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)