

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: P284681

Luminaire Tested: **8SNLED-LD5-96SL-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: P284681
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-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: 8084.0 lumens
Efficiency: N/A
Efficacy: 87.9 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

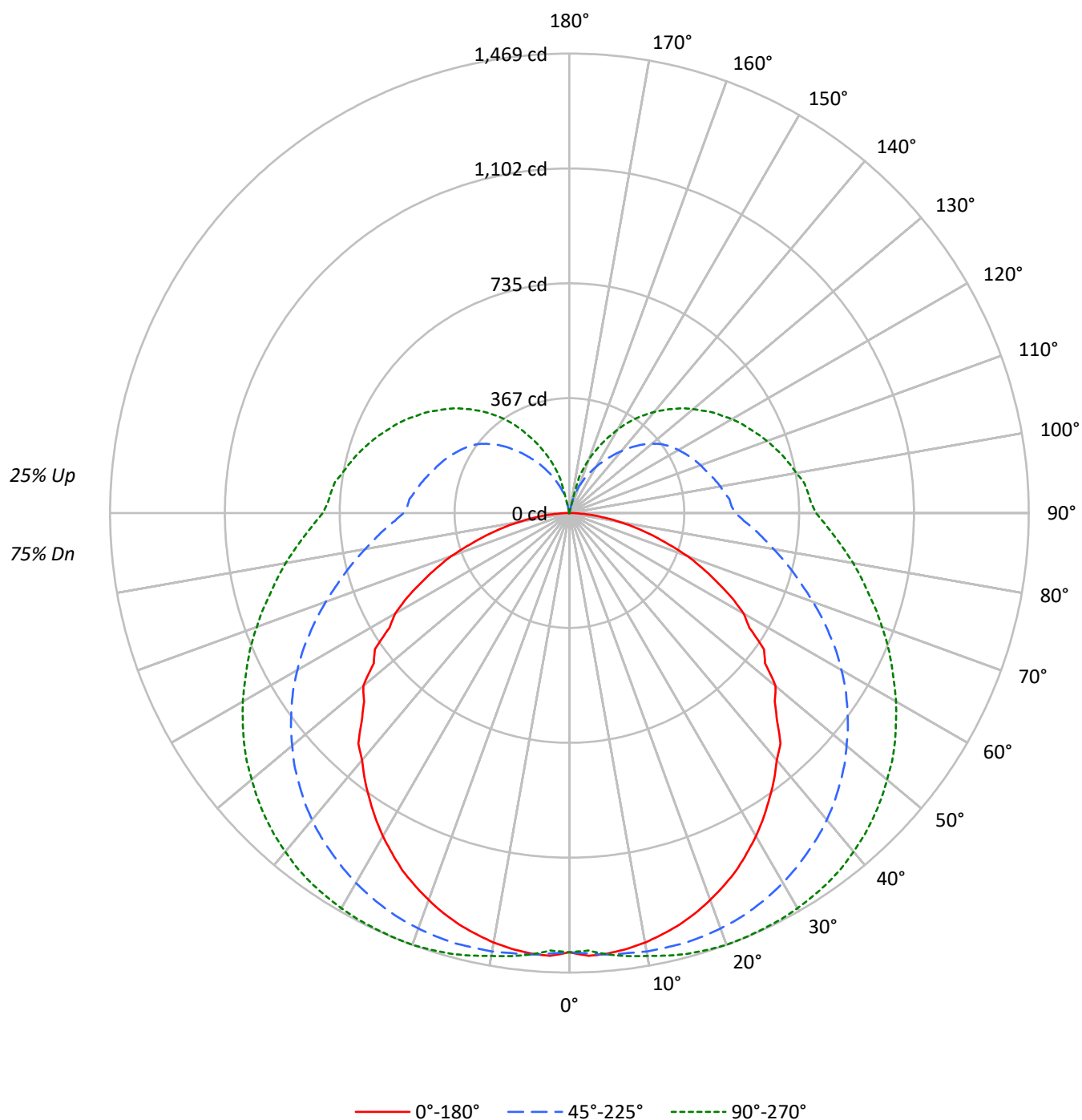
Input Watts (W): 92
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	5673	5673	5673
5°	5724	5611	5564
10°	5705	5567	5533
15°	5674	5542	5545
20°	5628	5521	5556
25°	5583	5506	5564
30°	5515	5494	5594
35°	5440	5480	5632
40°	5370	5482	5669
45°	5281	5475	5714
50°	5311	5470	5759
55°	5235	5478	5828
60°	5065	5490	5907
65°	4813	5507	6017
70°	4541	5562	6186
75°	4037	5707	6436
80°	3495	6006	6851
85°	2761	6604	7456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	1.7
10°-20°	399.9	4.9
20°-30°	635.6	7.9
30°-40°	815.7	10.1
40°-50°	921.2	11.4
50°-60°	939.9	11.6
60°-70°	870.8	10.8
70°-80°	737.2	9.1
80°-90°	588.5	7.3
90°-100°	499.7	6.2
100°-110°	445.2	5.5
110°-120°	379.2	4.7
120°-130°	301.2	3.7
130°-140°	213.7	2.6
140°-150°	127.6	1.6
150°-160°	59.5	0.7
160°-170°	14.1	0.2
170°-180°	0.0	0.0
0°-30°	1170.4	14.5
0°-40°	1986.2	24.6
0°-60°	3847.3	47.6
0°-90°	6043.8	74.8
90°-120°	1324.1	16.4
90°-150°	1966.5	24.3
90°-180°	2040.0	25.2
0°-180°	8084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1413	1402	1417	1417	1417	134
15°	1362	1373	1423	1449	1459	384
25°	1262	1303	1394	1444	1467	581
35°	1115	1197	1326	1408	1442	698
45°	939	1066	1223	1330	1375	729
55°	760	887	1085	1217	1271	667
65°	520	694	918	1075	1136	516
75°	274	484	743	925	990	291
85°	70	312	593	784	851	77
90°	4	255	530	722	788	6
95°	0	239	513	701	765	0
105°	0	220	468	644	707	0
115°	0	205	426	579	636	0
125°	0	177	378	511	560	0
135°	0	131	304	431	471	0
145°	0	86	213	323	369	1
155°	2	53	131	197	245	1
165°	2	29	59	82	116	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°	1404.0	1404.0	1404.0	1404.0	1404.0
2.5°	1416.9	1402.0	1409.7	1407.6	1399.9
5°	1413.3	1402.0	1416.9	1416.9	1416.9
7.5°	1405.6	1397.9	1418.9	1426.6	1428.6
10°	1394.3	1394.3	1423.0	1434.3	1437.9
12.5°	1378.9	1384.6	1423.0	1439.9	1449.1
15°	1362.0	1373.3	1423.0	1449.1	1458.9
17.5°	1341.0	1360.0	1418.9	1451.2	1464.5
20°	1316.4	1345.1	1413.3	1451.2	1468.6
22.5°	1289.7	1326.1	1405.6	1447.6	1468.6
25°	1261.5	1303.1	1394.3	1443.5	1466.6
27.5°	1227.2	1280.5	1381.0	1437.9	1464.5
30°	1192.8	1253.8	1365.6	1430.2	1458.9
32.5°	1154.9	1225.1	1346.6	1418.9	1451.2
35°	1114.9	1196.9	1326.1	1407.6	1442.0
37.5°	1074.9	1162.6	1305.1	1392.2	1430.2
40°	1031.4	1128.3	1280.5	1373.3	1413.3
42.5°	999.1	1092.4	1253.8	1354.3	1396.3
45°	938.6	1065.7	1223.1	1329.7	1375.3
47.5°	890.9	1014.5	1192.8	1305.1	1352.3
50°	860.7	972.4	1157.0	1276.4	1326.1
52.5°	788.4	944.2	1122.6	1248.2	1301.0
55°	759.7	887.3	1084.7	1217.4	1270.8
57.5°	681.8	847.3	1046.7	1183.6	1238.5
60°	643.8	792.0	1004.7	1149.3	1206.2
62.5°	584.9	744.8	963.2	1111.3	1170.3
65°	520.3	693.6	917.6	1074.9	1135.9
67.5°	459.8	642.3	874.0	1037.0	1101.6
70°	400.9	589.0	828.4	999.1	1063.7
72.5°	332.2	535.7	784.3	963.2	1027.8
75°	273.7	484.4	742.8	925.3	989.8
77.5°	216.3	435.2	702.8	890.9	955.5
80°	163.5	387.5	662.8	855.0	921.2
82.5°	113.8	347.5	626.9	820.7	885.3
85°	70.2	311.7	592.6	784.3	850.9
87.5°	32.3	279.4	558.2	750.5	818.6
90°	3.6	254.8	530.0	721.8	788.4
92.5°	2.1	247.1	518.8	708.4	773.0
95°	0.0	239.4	513.1	700.7	765.3
97.5°	0.0	231.7	499.8	689.5	756.1
100°	0.0	228.1	490.1	672.5	737.1
102.5°	0.0	222.5	478.8	657.2	721.8
105°	0.0	220.4	467.5	643.8	706.9
107.5°	0.0	216.3	455.7	626.9	689.5
110°	0.0	212.7	446.5	611.5	672.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	209.1	436.7	596.7	655.1
115°	0.0	205.0	425.5	579.2	636.1
117.5°	0.0	199.4	414.2	562.3	619.2
120°	0.0	191.7	402.9	547.0	600.3
122.5°	0.0	184.0	391.1	528.0	579.2
125°	0.0	176.9	377.8	511.1	560.3
127.5°	0.0	165.1	362.9	492.1	537.7
130°	0.0	153.8	344.0	473.1	516.7
132.5°	2.1	142.5	325.0	452.1	495.7
135°	0.0	131.2	304.0	431.1	471.1
137.5°	0.0	121.5	280.9	408.5	446.5
140°	0.0	110.2	258.4	381.9	421.9
142.5°	0.0	96.9	235.8	353.2	395.2
145°	0.0	85.6	212.7	322.9	368.6
147.5°	2.1	75.9	191.7	290.6	339.9
150°	2.1	68.2	171.2	258.4	307.6
152.5°	2.1	61.0	150.2	228.1	275.3
155°	2.1	53.3	131.2	197.4	245.0
157.5°	2.1	45.6	110.2	167.1	212.7
160°	2.1	40.0	91.2	140.5	182.5
162.5°	2.1	34.3	74.3	110.2	150.2
165°	2.1	28.7	59.0	81.5	115.8
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)