

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: P284680

Luminaire Tested: **8SNLED-LD5-90SL-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: P284680
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-LD5-90SL-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: 7532.0 lumens
Efficiency: N/A
Efficacy: 91.9 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

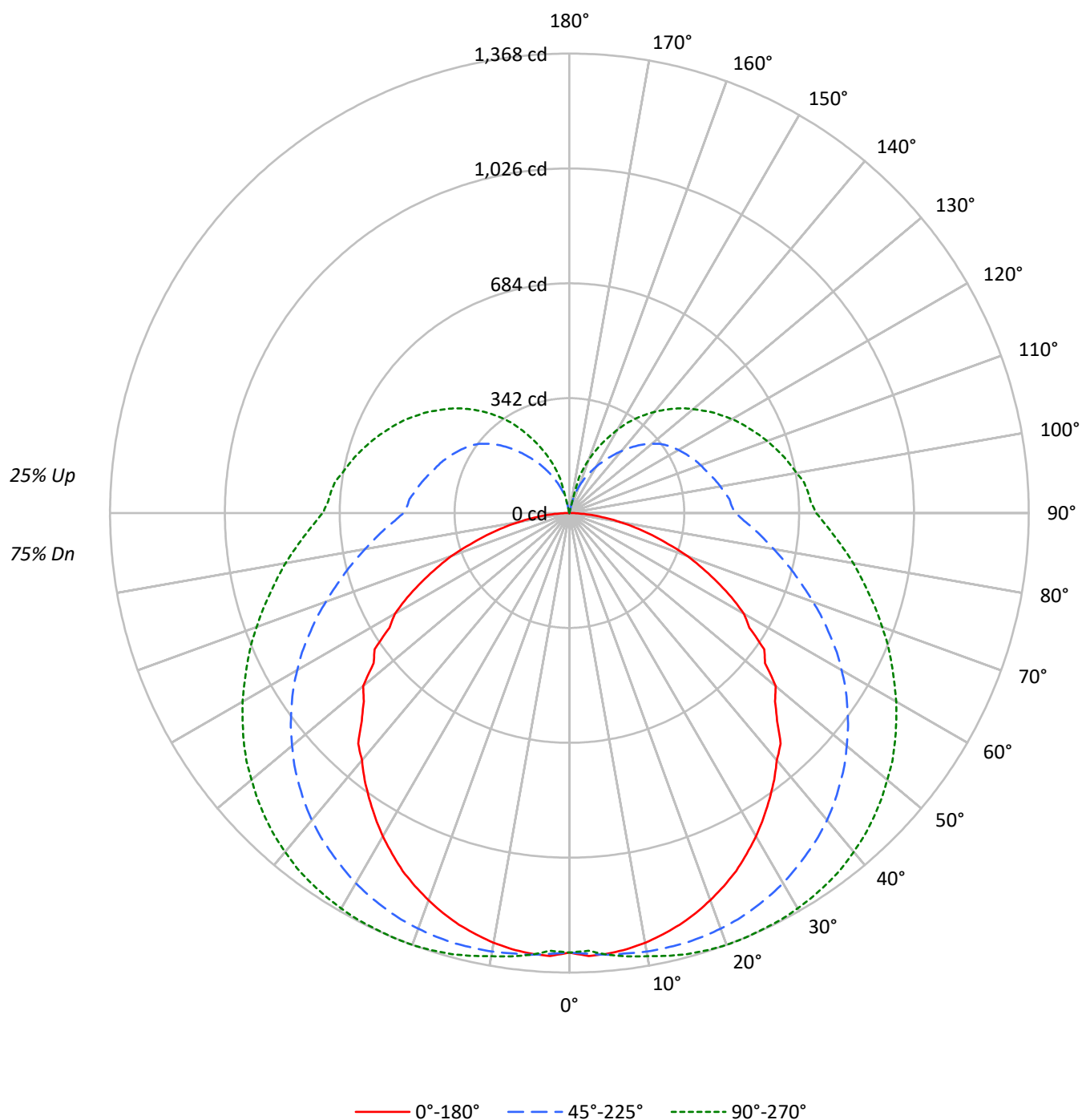
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5286	5286	5286
5°	5334	5228	5184
10°	5315	5187	5155
15°	5286	5163	5166
20°	5244	5144	5176
25°	5202	5130	5184
30°	5139	5119	5212
35°	5068	5106	5248
40°	5003	5108	5282
45°	4920	5101	5324
50°	4949	5097	5366
55°	4877	5104	5430
60°	4720	5115	5503
65°	4485	5131	5606
70°	4231	5182	5763
75°	3762	5318	5997
80°	3257	5595	6383
85°	2572	6152	6947



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	1.7
10°-20°	372.6	4.9
20°-30°	592.2	7.9
30°-40°	760.0	10.1
40°-50°	858.3	11.4
50°-60°	875.8	11.6
60°-70°	811.3	10.8
70°-80°	686.9	9.1
80°-90°	548.3	7.3
90°-100°	465.6	6.2
100°-110°	414.8	5.5
110°-120°	353.3	4.7
120°-130°	280.6	3.7
130°-140°	199.1	2.6
140°-150°	118.9	1.6
150°-160°	55.4	0.7
160°-170°	13.2	0.2
170°-180°	0.0	0.0
0°-30°	1090.5	14.5
0°-40°	1850.6	24.6
0°-60°	3584.6	47.6
0°-90°	5631.1	74.8
90°-120°	1233.7	16.4
90°-150°	1832.3	24.3
90°-180°	1901.0	25.2
0°-180°	7532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1317	1306	1320	1320	1320	125
15°	1269	1280	1326	1350	1359	358
25°	1175	1214	1299	1345	1366	541
35°	1039	1115	1236	1312	1344	650
45°	874	993	1140	1239	1281	679
55°	708	827	1011	1134	1184	621
65°	485	646	855	1002	1058	481
75°	255	451	692	862	922	271
85°	65	290	552	731	793	71
90°	3	237	494	672	735	5
95°	0	223	478	653	713	0
105°	0	205	436	600	659	0
115°	0	191	396	540	593	0
125°	0	165	352	476	522	0
135°	0	122	283	402	439	0
145°	0	80	198	301	343	1
155°	2	50	122	184	228	1
165°	2	27	55	76	108	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: 8SNLED-LD5-90SL-SLW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1308.2	1308.2	1308.2	1308.2	1308.2
2.5°	1320.1	1306.3	1313.4	1311.5	1304.3
5°	1316.8	1306.3	1320.1	1320.1	1320.1
7.5°	1309.6	1302.4	1322.0	1329.2	1331.1
10°	1299.1	1299.1	1325.8	1336.3	1339.7
12.5°	1284.8	1290.0	1325.8	1341.6	1350.2
15°	1269.0	1279.5	1325.8	1350.2	1359.3
17.5°	1249.4	1267.1	1322.0	1352.1	1364.5
20°	1226.5	1253.2	1316.8	1352.1	1368.3
22.5°	1201.7	1235.6	1309.6	1348.8	1368.3
25°	1175.4	1214.1	1299.1	1344.9	1366.4
27.5°	1143.4	1193.1	1286.7	1339.7	1364.5
30°	1111.4	1168.2	1272.3	1332.5	1359.3
32.5°	1076.0	1141.5	1254.7	1322.0	1352.1
35°	1038.8	1115.2	1235.6	1311.5	1343.5
37.5°	1001.5	1083.2	1216.0	1297.2	1332.5
40°	960.9	1051.2	1193.1	1279.5	1316.8
42.5°	930.9	1017.8	1168.2	1261.8	1301.0
45°	874.5	992.9	1139.6	1238.9	1281.4
47.5°	830.1	945.2	1111.4	1216.0	1259.9
50°	801.9	906.0	1078.0	1189.2	1235.6
52.5°	734.6	879.8	1046.0	1163.0	1212.2
55°	707.8	826.7	1010.6	1134.3	1184.0
57.5°	635.2	789.5	975.3	1102.8	1153.9
60°	599.9	737.9	936.1	1070.8	1123.8
62.5°	544.9	694.0	897.4	1035.5	1090.4
65°	484.8	646.2	854.9	1001.5	1058.4
67.5°	428.4	598.4	814.3	966.2	1026.4
70°	373.5	548.8	771.8	930.9	991.0
72.5°	309.5	499.1	730.7	897.4	957.6
75°	255.0	451.3	692.1	862.1	922.3
77.5°	201.6	405.5	654.8	830.1	890.3
80°	152.4	361.1	617.5	796.6	858.3
82.5°	106.0	323.8	584.1	764.6	824.8
85°	65.4	290.4	552.1	730.7	792.8
87.5°	30.1	260.3	520.1	699.2	762.7
90°	3.3	237.4	493.8	672.5	734.6
92.5°	1.9	230.2	483.3	660.1	720.2
95°	0.0	223.0	478.1	652.9	713.1
97.5°	0.0	215.9	465.7	642.4	704.5
100°	0.0	212.5	456.6	626.6	686.8
102.5°	0.0	207.3	446.1	612.3	672.5
105°	0.0	205.4	435.6	599.9	658.6
107.5°	0.0	201.6	424.6	584.1	642.4
110°	0.0	198.2	416.0	569.8	626.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	194.9	406.9	555.9	610.4
115°	0.0	191.0	396.4	539.7	592.7
117.5°	0.0	185.8	385.9	523.9	576.9
120°	0.0	178.6	375.4	509.6	559.3
122.5°	0.0	171.5	364.4	491.9	539.7
125°	0.0	164.8	352.0	476.2	522.0
127.5°	0.0	153.8	338.1	458.5	501.0
130°	0.0	143.3	320.5	440.8	481.4
132.5°	1.9	132.8	302.8	421.2	461.8
135°	0.0	122.3	283.2	401.7	438.9
137.5°	0.0	113.2	261.7	380.7	416.0
140°	0.0	102.7	240.7	355.8	393.1
142.5°	0.0	90.3	219.7	329.1	368.2
145°	0.0	79.8	198.2	300.9	343.4
147.5°	1.9	70.7	178.6	270.8	316.7
150°	1.9	63.5	159.5	240.7	286.6
152.5°	1.9	56.8	139.9	212.5	256.5
155°	1.9	49.7	122.3	183.9	228.3
157.5°	1.9	42.5	102.7	155.7	198.2
160°	1.9	37.3	85.0	130.9	170.0
162.5°	1.9	32.0	69.3	102.7	139.9
165°	1.9	26.7	54.9	75.9	107.9
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)