

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: P284719

Luminaire Tested: **8SNLED-LD5-90SL-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: P284719
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-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: 7710.0 lumens
Efficiency: N/A
Efficacy: 94.0 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

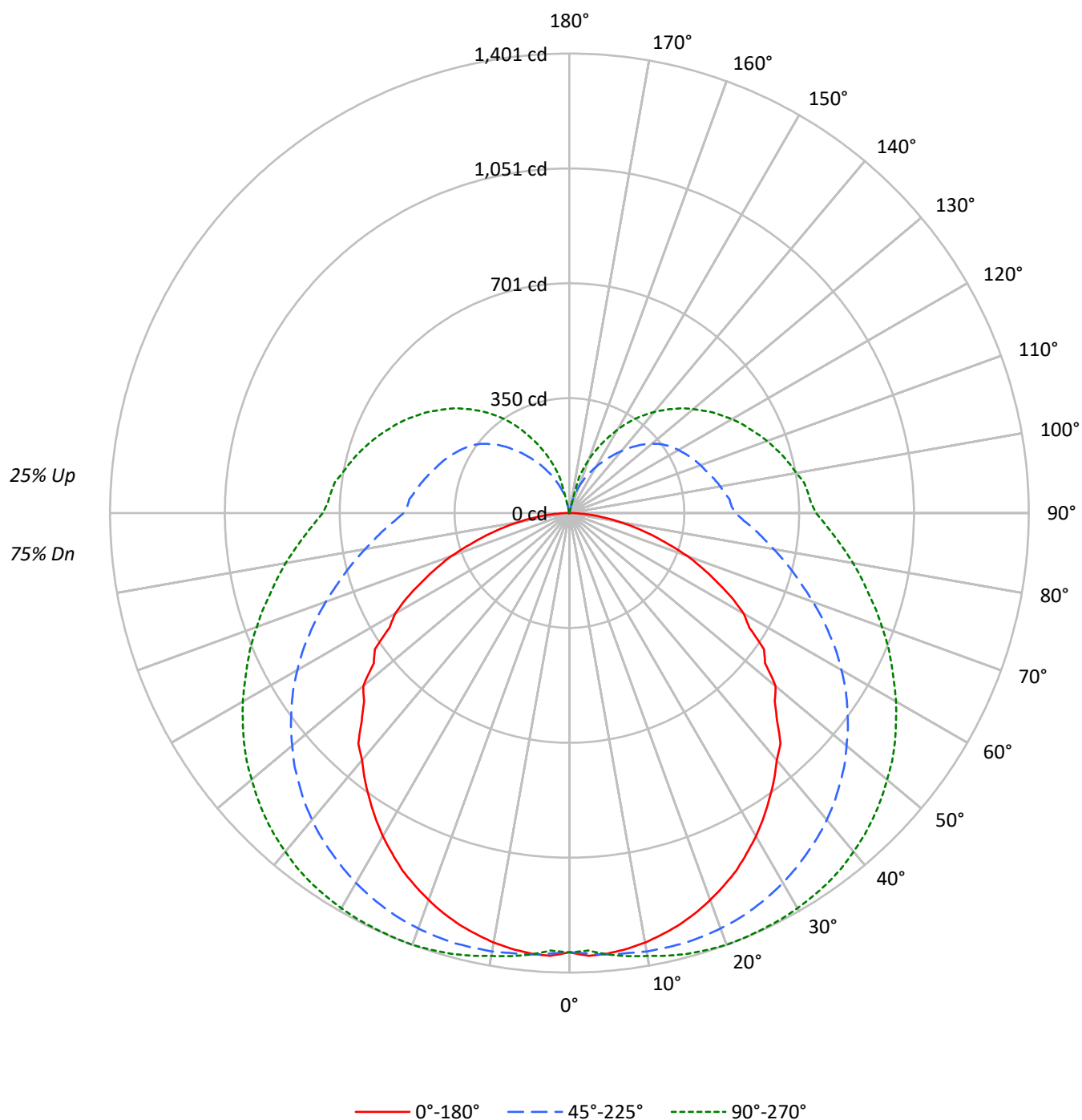
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5411	5411	5411
5°	5460	5351	5307
10°	5441	5310	5277
15°	5411	5286	5288
20°	5368	5266	5299
25°	5325	5251	5307
30°	5261	5240	5335
35°	5188	5227	5372
40°	5121	5229	5407
45°	5037	5222	5450
50°	5066	5217	5493
55°	4992	5225	5558
60°	4832	5236	5634
65°	4590	5252	5739
70°	4330	5305	5900
75°	3852	5443	6139
80°	3334	5727	6533
85°	2635	6298	7112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	1.7
10°-20°	381.4	4.9
20°-30°	606.2	7.9
30°-40°	778.0	10.1
40°-50°	878.6	11.4
50°-60°	896.5	11.6
60°-70°	830.5	10.8
70°-80°	703.1	9.1
80°-90°	561.2	7.3
90°-100°	476.6	6.2
100°-110°	424.6	5.5
110°-120°	361.7	4.7
120°-130°	287.2	3.7
130°-140°	203.8	2.6
140°-150°	121.7	1.6
150°-160°	56.7	0.7
160°-170°	13.5	0.2
170°-180°	0.0	0.0
0°-30°	1116.3	14.5
0°-40°	1894.3	24.6
0°-60°	3669.3	47.6
0°-90°	5764.2	74.8
90°-120°	1262.9	16.4
90°-150°	1875.6	24.3
90°-180°	1946.0	25.2
0°-180°	7710.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1339	1339	1339	1339	1339	
5°	1348	1337	1351	1351	1351	128
15°	1299	1310	1357	1382	1391	366
25°	1203	1243	1330	1377	1399	554
35°	1063	1142	1265	1342	1375	666
45°	895	1016	1166	1268	1312	695
55°	724	846	1034	1161	1212	636
65°	496	662	875	1025	1083	493
75°	261	462	708	882	944	278
85°	67	297	565	748	812	73
90°	3	243	506	688	752	5
95°	0	228	489	668	730	0
105°	0	210	446	614	674	0
115°	0	196	406	552	607	0
125°	0	169	360	487	534	0
135°	0	125	290	411	449	0
145°	0	82	203	308	352	1
155°	2	51	125	188	234	1
165°	2	27	56	78	110	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°	1339.1	1339.1	1339.1	1339.1	1339.1
2.5°	1351.3	1337.1	1344.5	1342.5	1335.2
5°	1347.9	1337.1	1351.3	1351.3	1351.3
7.5°	1340.5	1333.2	1353.3	1360.6	1362.5
10°	1329.8	1329.8	1357.2	1367.9	1371.3
12.5°	1315.1	1320.5	1357.2	1373.3	1382.1
15°	1299.0	1309.7	1357.2	1382.1	1391.4
17.5°	1278.9	1297.0	1353.3	1384.1	1396.8
20°	1255.5	1282.9	1347.9	1384.1	1400.7
22.5°	1230.1	1264.8	1340.5	1380.6	1400.7
25°	1203.2	1242.8	1329.8	1376.7	1398.7
27.5°	1170.4	1221.3	1317.1	1371.3	1396.8
30°	1137.7	1195.8	1302.4	1364.0	1391.4
32.5°	1101.5	1168.5	1284.3	1353.3	1384.1
35°	1063.3	1141.6	1264.8	1342.5	1375.3
37.5°	1025.2	1108.8	1244.7	1327.8	1364.0
40°	983.7	1076.1	1221.3	1309.7	1347.9
42.5°	952.9	1041.8	1195.8	1291.7	1331.7
45°	895.2	1016.4	1166.5	1268.2	1311.7
47.5°	849.7	967.5	1137.7	1244.7	1289.7
50°	820.9	927.4	1103.4	1217.3	1264.8
52.5°	751.9	900.5	1070.7	1190.5	1240.8
55°	724.5	846.3	1034.5	1161.1	1212.0
57.5°	650.2	808.1	998.3	1128.9	1181.2
60°	614.1	755.3	958.2	1096.1	1150.4
62.5°	557.8	710.4	918.6	1059.9	1116.1
65°	496.2	661.5	875.1	1025.2	1083.4
67.5°	438.5	612.6	833.6	989.0	1050.6
70°	382.3	561.7	790.1	952.9	1014.5
72.5°	316.8	510.9	748.0	918.6	980.2
75°	261.1	462.0	708.4	882.5	944.1
77.5°	206.3	415.1	670.3	849.7	911.3
80°	156.0	369.6	632.1	815.5	878.5
82.5°	108.5	331.5	597.9	782.7	844.3
85°	67.0	297.2	565.2	748.0	811.6
87.5°	30.8	266.4	532.4	715.7	780.8
90°	3.4	243.0	505.5	688.4	751.9
92.5°	2.0	235.6	494.8	675.7	737.3
95°	0.0	228.3	489.4	668.3	729.9
97.5°	0.0	221.0	476.7	657.6	721.1
100°	0.0	217.6	467.4	641.4	703.0
102.5°	0.0	212.2	456.6	626.8	688.4
105°	0.0	210.2	445.9	614.1	674.2
107.5°	0.0	206.3	434.6	597.9	657.6
110°	0.0	202.9	425.8	583.3	641.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	199.5	416.5	569.1	624.8
115°	0.0	195.6	405.8	552.5	606.7
117.5°	0.0	190.2	395.0	536.3	590.6
120°	0.0	182.8	384.3	521.7	572.5
122.5°	0.0	175.5	373.0	503.6	552.5
125°	0.0	168.7	360.3	487.4	534.4
127.5°	0.0	157.4	346.1	469.3	512.9
130°	0.0	146.7	328.0	451.2	492.8
132.5°	2.0	135.9	310.0	431.2	472.8
135°	0.0	125.2	289.9	411.2	449.3
137.5°	0.0	115.9	267.9	389.6	425.8
140°	0.0	105.1	246.4	364.2	402.4
142.5°	0.0	92.4	224.9	336.8	376.9
145°	0.0	81.6	202.9	308.0	351.5
147.5°	2.0	72.4	182.8	277.2	324.1
150°	2.0	65.0	163.3	246.4	293.3
152.5°	2.0	58.2	143.2	217.6	262.5
155°	2.0	50.8	125.2	188.2	233.7
157.5°	2.0	43.5	105.1	159.4	202.9
160°	2.0	38.1	87.0	134.0	174.0
162.5°	2.0	32.8	70.9	105.1	143.2
165°	2.0	27.4	56.2	77.7	110.5
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)