

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: P284757

Luminaire Tested: **8SNLED-LD5-83SL-SLW-UNV-L950-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: P284757
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-LD5-83SL-SLW-UNV-L950-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: 7578.0 lumens
Efficiency: N/A
Efficacy: 101.0 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

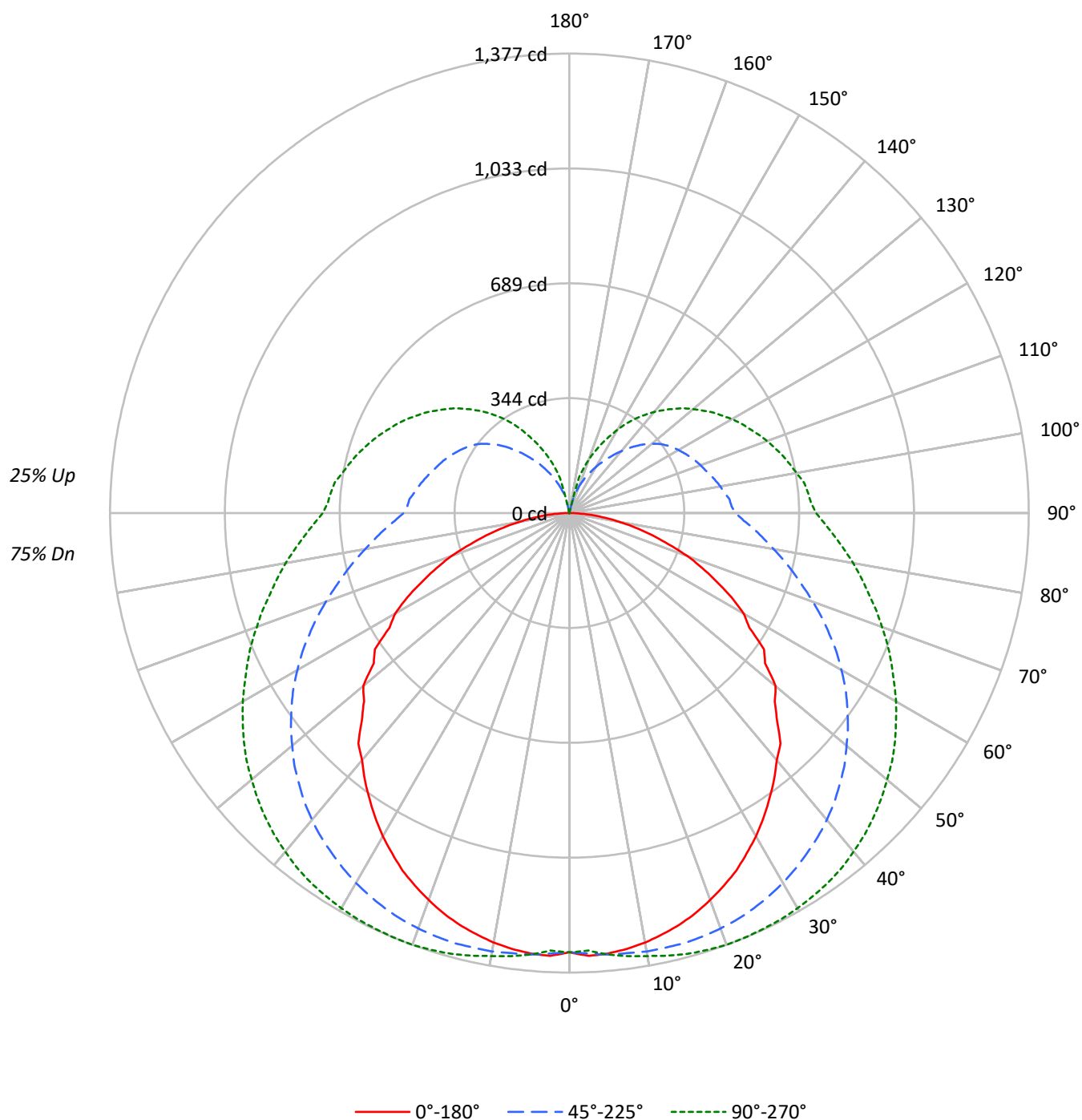
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5318	5318	5318
5°	5366	5260	5216
10°	5348	5218	5187
15°	5319	5195	5198
20°	5276	5176	5208
25°	5234	5161	5216
30°	5170	5150	5244
35°	5099	5137	5280
40°	5033	5139	5314
45°	4950	5132	5356
50°	4979	5128	5399
55°	4907	5135	5463
60°	4748	5146	5537
65°	4512	5162	5640
70°	4257	5213	5799
75°	3785	5350	6033
80°	3277	5630	6422
85°	2588	6190	6990



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	1.7
10°-20°	374.9	4.9
20°-30°	595.8	7.9
30°-40°	764.7	10.1
40°-50°	863.5	11.4
50°-60°	881.1	11.6
60°-70°	816.3	10.8
70°-80°	691.1	9.1
80°-90°	551.7	7.3
90°-100°	468.4	6.2
100°-110°	417.3	5.5
110°-120°	355.4	4.7
120°-130°	282.3	3.7
130°-140°	200.3	2.6
140°-150°	119.6	1.6
150°-160°	55.8	0.7
160°-170°	13.2	0.2
170°-180°	0.0	0.0
0°-30°	1097.2	14.5
0°-40°	1861.9	24.6
0°-60°	3606.5	47.6
0°-90°	5665.5	74.8
90°-120°	1241.2	16.4
90°-150°	1843.4	24.3
90°-180°	1912.0	25.2
0°-180°	7578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1325	1314	1328	1328	1328	126
15°	1277	1287	1334	1358	1368	360
25°	1183	1222	1307	1353	1375	544
35°	1045	1122	1243	1320	1352	654
45°	880	999	1146	1246	1289	683
55°	712	832	1017	1141	1191	625
65°	488	650	860	1008	1065	484
75°	257	454	696	867	928	273
85°	66	292	556	735	798	72
90°	3	239	497	677	739	5
95°	0	224	481	657	717	0
105°	0	207	438	604	663	0
115°	0	192	399	543	596	0
125°	0	166	354	479	525	0
135°	0	123	285	404	442	0
145°	0	80	199	303	346	1
155°	2	50	123	185	230	1
165°	2	27	55	76	109	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284757

CATALOG NUMBER: 8SNLED-LD5-83SL-SLW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.2	1316.2	1316.2	1316.2	1316.2
2.5°	1328.2	1314.2	1321.4	1319.5	1312.3
5°	1324.8	1314.2	1328.2	1328.2	1328.2
7.5°	1317.6	1310.4	1330.1	1337.3	1339.2
10°	1307.0	1307.0	1333.9	1344.5	1347.9
12.5°	1292.6	1297.9	1333.9	1349.8	1358.4
15°	1276.8	1287.3	1333.9	1358.4	1367.6
17.5°	1257.1	1274.8	1330.1	1360.4	1372.9
20°	1234.0	1260.9	1324.8	1360.4	1376.7
22.5°	1209.0	1243.1	1317.6	1357.0	1376.7
25°	1182.6	1221.5	1307.0	1353.2	1374.8
27.5°	1150.4	1200.3	1294.5	1347.9	1372.9
30°	1118.2	1175.4	1280.1	1340.7	1367.6
32.5°	1082.6	1148.5	1262.3	1330.1	1360.4
35°	1045.1	1122.0	1243.1	1319.5	1351.7
37.5°	1007.7	1089.8	1223.4	1305.1	1340.7
40°	966.8	1057.6	1200.3	1287.3	1324.8
42.5°	936.5	1024.0	1175.4	1269.5	1308.9
45°	879.8	999.0	1146.5	1246.5	1289.2
47.5°	835.2	951.0	1118.2	1223.4	1267.6
50°	806.8	911.6	1084.5	1196.5	1243.1
52.5°	739.0	885.1	1052.3	1170.1	1219.6
55°	712.1	831.8	1016.8	1141.2	1191.2
57.5°	639.1	794.3	981.2	1109.5	1160.9
60°	603.5	742.4	941.8	1077.3	1130.7
62.5°	548.3	698.2	902.9	1041.8	1097.0
65°	487.7	650.1	860.1	1007.7	1064.8
67.5°	431.0	602.1	819.3	972.1	1032.6
70°	375.8	552.1	776.5	936.5	997.1
72.5°	311.4	502.1	735.2	902.9	963.5
75°	256.6	454.1	696.3	867.3	927.9
77.5°	202.8	408.0	658.8	835.2	895.7
80°	153.3	363.3	621.3	801.5	863.5
82.5°	106.7	325.8	587.7	769.3	829.9
85°	65.8	292.2	555.5	735.2	797.7
87.5°	30.3	261.9	523.3	703.5	767.4
90°	3.4	238.8	496.9	676.6	739.0
92.5°	1.9	231.6	486.3	664.1	724.6
95°	0.0	224.4	481.0	656.9	717.4
97.5°	0.0	217.2	468.5	646.3	708.8
100°	0.0	213.8	459.4	630.4	691.0
102.5°	0.0	208.5	448.8	616.0	676.6
105°	0.0	206.6	438.2	603.5	662.6
107.5°	0.0	202.8	427.2	587.7	646.3
110°	0.0	199.4	418.5	573.3	630.4



TEST NUMBER: P284757

CATALOG NUMBER: 8SNLED-LD5-83SL-SLW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	196.1	409.4	559.3	614.1
115°	0.0	192.2	398.8	543.0	596.3
117.5°	0.0	186.9	388.3	527.1	580.5
120°	0.0	179.7	377.7	512.7	562.7
122.5°	0.0	172.5	366.6	494.9	543.0
125°	0.0	165.8	354.1	479.1	525.2
127.5°	0.0	154.7	340.2	461.3	504.1
130°	0.0	144.2	322.4	443.5	484.4
132.5°	1.9	133.6	304.7	423.8	464.7
135°	0.0	123.0	285.0	404.1	441.6
137.5°	0.0	113.9	263.3	383.0	418.5
140°	0.0	103.3	242.2	358.0	395.5
142.5°	0.0	90.8	221.0	331.1	370.5
145°	0.0	80.2	199.4	302.7	345.5
147.5°	1.9	71.1	179.7	272.5	318.6
150°	1.9	63.9	160.5	242.2	288.3
152.5°	1.9	57.2	140.8	213.8	258.0
155°	1.9	50.0	123.0	185.0	229.7
157.5°	1.9	42.8	103.3	156.7	199.4
160°	1.9	37.5	85.5	131.7	171.1
162.5°	1.9	32.2	69.7	103.3	140.8
165°	1.9	26.9	55.3	76.4	108.6
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)