

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: P284679

Luminaire Tested: **8SNLED-LD5-83SL-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: P284679
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-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: 6944.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

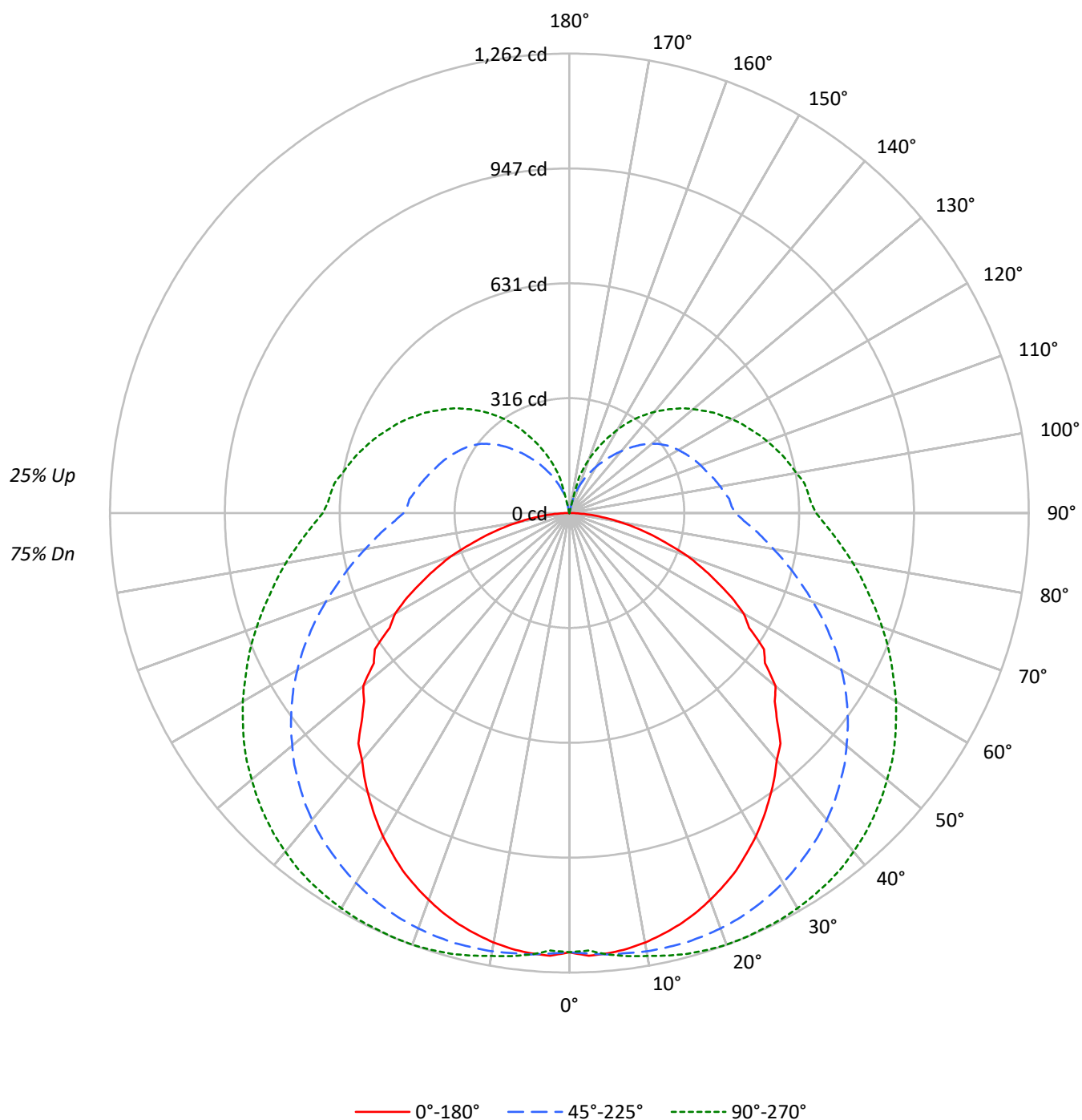
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	4873	4873	4873
5°	4917	4820	4779
10°	4900	4782	4753
15°	4873	4760	4763
20°	4834	4743	4772
25°	4796	4730	4780
30°	4738	4719	4805
35°	4673	4707	4838
40°	4612	4709	4869
45°	4536	4703	4908
50°	4562	4699	4947
55°	4497	4705	5006
60°	4351	4716	5074
65°	4134	4731	5169
70°	3900	4778	5314
75°	3468	4902	5529
80°	3003	5158	5885
85°	2372	5672	6405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	1.7
10°-20°	343.5	4.9
20°-30°	546.0	7.9
30°-40°	700.7	10.1
40°-50°	791.3	11.4
50°-60°	807.4	11.6
60°-70°	748.0	10.8
70°-80°	633.3	9.1
80°-90°	505.5	7.3
90°-100°	429.2	6.2
100°-110°	382.4	5.5
110°-120°	325.7	4.7
120°-130°	258.7	3.7
130°-140°	183.5	2.6
140°-150°	109.6	1.6
150°-160°	51.1	0.7
160°-170°	12.1	0.2
170°-180°	0.0	0.0
0°-30°	1005.4	14.5
0°-40°	1706.1	24.6
0°-60°	3304.8	47.6
0°-90°	5191.5	74.8
90°-120°	1137.4	16.4
90°-150°	1689.2	24.3
90°-180°	1752.0	25.2
0°-180°	6944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1214	1204	1217	1217	1217	115
15°	1170	1180	1222	1245	1253	330
25°	1084	1119	1198	1240	1260	499
35°	958	1028	1139	1209	1239	600
45°	806	915	1051	1142	1181	626
55°	653	762	932	1046	1092	573
65°	447	596	788	923	976	444
75°	235	416	638	795	850	250
85°	60	268	509	674	731	66
90°	3	219	455	620	677	5
95°	0	206	441	602	657	0
105°	0	189	402	553	607	0
115°	0	176	366	498	546	0
125°	0	152	324	439	481	0
135°	0	113	261	370	405	0
145°	0	74	183	277	317	1
155°	2	46	113	170	210	1
165°	2	25	51	70	100	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°	1206.0	1206.0	1206.0	1206.0	1206.0
2.5°	1217.0	1204.3	1210.9	1209.1	1202.5
5°	1214.0	1204.3	1217.0	1217.0	1217.0
7.5°	1207.4	1200.8	1218.8	1225.4	1227.2
10°	1197.7	1197.7	1222.3	1232.0	1235.1
12.5°	1184.5	1189.3	1222.3	1236.9	1244.8
15°	1169.9	1179.6	1222.3	1244.8	1253.2
17.5°	1151.9	1168.2	1218.8	1246.6	1258.0
20°	1130.7	1155.4	1214.0	1246.6	1261.5
22.5°	1107.8	1139.1	1207.4	1243.5	1261.5
25°	1083.6	1119.3	1197.7	1239.9	1259.8
27.5°	1054.1	1099.9	1186.2	1235.1	1258.0
30°	1024.6	1077.0	1173.0	1228.5	1253.2
32.5°	992.0	1052.4	1156.7	1218.8	1246.6
35°	957.7	1028.2	1139.1	1209.1	1238.6
37.5°	923.4	998.7	1121.1	1195.9	1228.5
40°	885.9	969.1	1099.9	1179.6	1214.0
42.5°	858.2	938.3	1077.0	1163.3	1199.4
45°	806.2	915.4	1050.6	1142.2	1181.4
47.5°	765.3	871.4	1024.6	1121.1	1161.6
50°	739.3	835.3	993.8	1096.4	1139.1
52.5°	677.2	811.1	964.3	1072.2	1117.5
55°	652.6	762.2	931.7	1045.8	1091.6
57.5°	585.6	727.9	899.1	1016.7	1063.8
60°	553.0	680.3	863.0	987.2	1036.1
62.5°	502.4	639.8	827.4	954.6	1005.3
65°	446.9	595.8	788.2	923.4	975.8
67.5°	395.0	551.7	750.7	890.8	946.3
70°	344.3	505.9	711.6	858.2	913.7
72.5°	285.3	460.1	673.7	827.4	882.8
75°	235.1	416.1	638.0	794.8	850.3
77.5°	185.8	373.8	603.7	765.3	820.8
80°	140.5	332.9	569.3	734.5	791.3
82.5°	97.8	298.5	538.5	705.0	760.4
85°	60.3	267.7	509.0	673.7	730.9
87.5°	27.7	240.0	479.5	644.6	703.2
90°	3.1	218.8	455.3	620.0	677.2
92.5°	1.8	212.2	445.6	608.5	664.0
95°	0.0	205.6	440.8	601.9	657.4
97.5°	0.0	199.0	429.3	592.2	649.5
100°	0.0	195.9	420.9	577.7	633.2
102.5°	0.0	191.1	411.3	564.5	620.0
105°	0.0	189.3	401.6	553.0	607.2
107.5°	0.0	185.8	391.4	538.5	592.2
110°	0.0	182.7	383.5	525.3	577.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	179.7	375.2	512.5	562.7
115°	0.0	176.1	365.5	497.6	546.4
117.5°	0.0	171.3	355.8	483.0	531.9
120°	0.0	164.7	346.1	469.8	515.6
122.5°	0.0	158.1	336.0	453.5	497.6
125°	0.0	151.9	324.5	439.0	481.3
127.5°	0.0	141.8	311.7	422.7	461.9
130°	0.0	132.1	295.5	406.4	443.8
132.5°	1.8	122.4	279.2	388.4	425.8
135°	0.0	112.7	261.1	370.3	404.7
137.5°	0.0	104.4	241.3	350.9	383.5
140°	0.0	94.7	221.9	328.0	362.4
142.5°	0.0	83.2	202.5	303.4	339.5
145°	0.0	73.5	182.7	277.4	316.6
147.5°	1.8	65.2	164.7	249.7	291.9
150°	1.8	58.6	147.1	221.9	264.2
152.5°	1.8	52.4	129.0	195.9	236.5
155°	1.8	45.8	112.7	169.5	210.5
157.5°	1.8	39.2	94.7	143.5	182.7
160°	1.8	34.3	78.4	120.6	156.8
162.5°	1.8	29.5	63.8	94.7	129.0
165°	1.8	24.7	50.6	70.0	99.5
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)