

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: P284640

Luminaire Tested: **8SNLED-LD5-83SL-SLW-UNV-L930-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: P284640
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-L930-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: 6543.0 lumens
Efficiency: N/A
Efficacy: 87.2 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

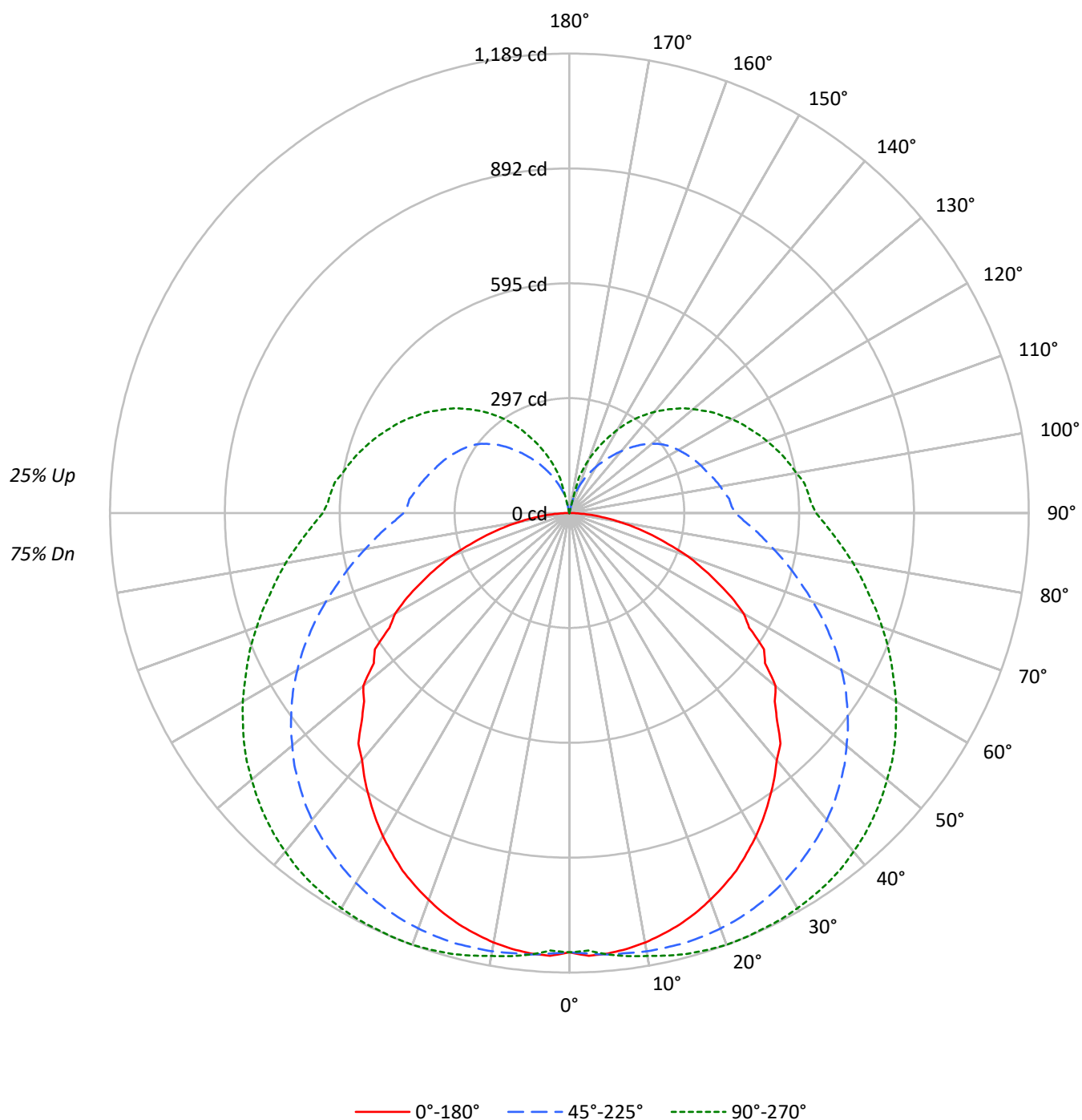
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4592	4592	4592
5°	4633	4542	4503
10°	4617	4506	4478
15°	4592	4485	4488
20°	4555	4469	4497
25°	4519	4457	4504
30°	4464	4447	4528
35°	4403	4435	4559
40°	4346	4437	4588
45°	4274	4431	4625
50°	4299	4427	4661
55°	4237	4434	4717
60°	4100	4444	4781
65°	3895	4458	4870
70°	3675	4502	5007
75°	3269	4619	5210
80°	2830	4861	5545
85°	2234	5345	6035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	1.7
10°-20°	323.7	4.9
20°-30°	514.4	7.9
30°-40°	660.2	10.1
40°-50°	745.6	11.4
50°-60°	760.8	11.6
60°-70°	704.8	10.8
70°-80°	596.7	9.1
80°-90°	476.3	7.3
90°-100°	404.5	6.2
100°-110°	360.3	5.5
110°-120°	306.9	4.7
120°-130°	243.8	3.7
130°-140°	172.9	2.6
140°-150°	103.3	1.6
150°-160°	48.1	0.7
160°-170°	11.4	0.2
170°-180°	0.0	0.0
0°-30°	947.3	14.5
0°-40°	1607.6	24.6
0°-60°	3113.9	47.6
0°-90°	4891.8	74.8
90°-120°	1071.7	16.4
90°-150°	1591.7	24.3
90°-180°	1651.0	25.2
0°-180°	6543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1144	1135	1147	1147	1147	109
15°	1102	1112	1152	1173	1181	311
25°	1021	1055	1128	1168	1187	470
35°	902	969	1073	1139	1167	565
45°	760	863	990	1076	1113	590
55°	615	718	878	985	1028	540
65°	421	561	743	870	919	418
75°	222	392	601	749	801	236
85°	57	252	480	635	689	62
90°	3	206	429	584	638	5
95°	0	194	415	567	619	0
105°	0	178	378	521	572	0
115°	0	166	344	469	515	0
125°	0	143	306	414	454	0
135°	0	106	246	349	381	0
145°	0	69	172	261	298	1
155°	2	43	106	160	198	1
165°	2	23	48	66	94	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284640

CATALOG NUMBER: 8SNLED-LD5-83SL-SLW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1136.4	1136.4	1136.4	1136.4	1136.4
2.5°	1146.8	1134.7	1141.0	1139.3	1133.1
5°	1143.9	1134.7	1146.8	1146.8	1146.8
7.5°	1137.6	1131.4	1148.4	1154.7	1156.3
10°	1128.5	1128.5	1151.7	1160.9	1163.8
12.5°	1116.1	1120.6	1151.7	1165.4	1172.9
15°	1102.4	1111.5	1151.7	1172.9	1180.8
17.5°	1085.4	1100.7	1148.4	1174.6	1185.4
20°	1065.4	1088.7	1143.9	1174.6	1188.7
22.5°	1043.9	1073.3	1137.6	1171.7	1188.7
25°	1021.1	1054.7	1128.5	1168.3	1187.0
27.5°	993.3	1036.4	1117.7	1163.8	1185.4
30°	965.5	1014.8	1105.3	1157.6	1180.8
32.5°	934.8	991.6	1089.9	1148.4	1174.6
35°	902.4	968.8	1073.3	1139.3	1167.1
37.5°	870.0	941.0	1056.3	1126.9	1157.6
40°	834.8	913.2	1036.4	1111.5	1143.9
42.5°	808.6	884.1	1014.8	1096.2	1130.2
45°	759.7	862.6	989.9	1076.2	1113.2
47.5°	721.1	821.1	965.5	1056.3	1094.5
50°	696.6	787.1	936.4	1033.1	1073.3
52.5°	638.1	764.2	908.6	1010.3	1053.0
55°	614.9	718.2	877.9	985.4	1028.5
57.5°	551.8	685.8	847.2	958.0	1002.4
60°	521.1	641.0	813.2	930.2	976.2
62.5°	473.4	602.8	779.6	899.5	947.2
65°	421.1	561.4	742.7	870.0	919.4
67.5°	372.2	519.9	707.4	839.3	891.6
70°	324.4	476.7	670.5	808.6	860.9
72.5°	268.9	433.6	634.8	779.6	831.9
75°	221.6	392.1	601.2	748.9	801.2
77.5°	175.1	352.2	568.8	721.1	773.4
80°	132.4	313.7	536.5	692.0	745.6
82.5°	92.1	281.3	507.4	664.2	716.5
85°	56.8	252.3	479.6	634.8	688.7
87.5°	26.1	226.1	451.8	607.4	662.6
90°	2.9	206.2	429.0	584.2	638.1
92.5°	1.7	200.0	419.9	573.4	625.7
95°	0.0	193.8	415.3	567.2	619.4
97.5°	0.0	187.5	404.5	558.0	612.0
100°	0.0	184.6	396.6	544.3	596.6
102.5°	0.0	180.1	387.5	531.9	584.2
105°	0.0	178.4	378.4	521.1	572.1
107.5°	0.0	175.1	368.8	507.4	558.0
110°	0.0	172.2	361.4	495.0	544.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	169.3	353.5	482.9	530.2
115°	0.0	166.0	344.4	468.8	514.9
117.5°	0.0	161.4	335.2	455.1	501.2
120°	0.0	155.2	326.1	442.7	485.8
122.5°	0.0	148.9	316.6	427.3	468.8
125°	0.0	143.1	305.8	413.6	453.5
127.5°	0.0	133.6	293.7	398.3	435.2
130°	0.0	124.5	278.4	382.9	418.2
132.5°	1.7	115.3	263.0	365.9	401.2
135°	0.0	106.2	246.0	348.9	381.3
137.5°	0.0	98.3	227.4	330.7	361.4
140°	0.0	89.2	209.1	309.1	341.5
142.5°	0.0	78.4	190.9	285.9	319.9
145°	0.0	69.3	172.2	261.4	298.3
147.5°	1.7	61.4	155.2	235.2	275.1
150°	1.7	55.2	138.6	209.1	248.9
152.5°	1.7	49.4	121.6	184.6	222.8
155°	1.7	43.1	106.2	159.7	198.3
157.5°	1.7	36.9	89.2	135.3	172.2
160°	1.7	32.4	73.9	113.7	147.7
162.5°	1.7	27.8	60.2	89.2	121.6
165°	1.7	23.2	47.7	66.0	93.8
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)