

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: P#

Luminaire Tested: **8SNLED-LD5-81SL-SLW-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27403)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-81SL-SLW-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

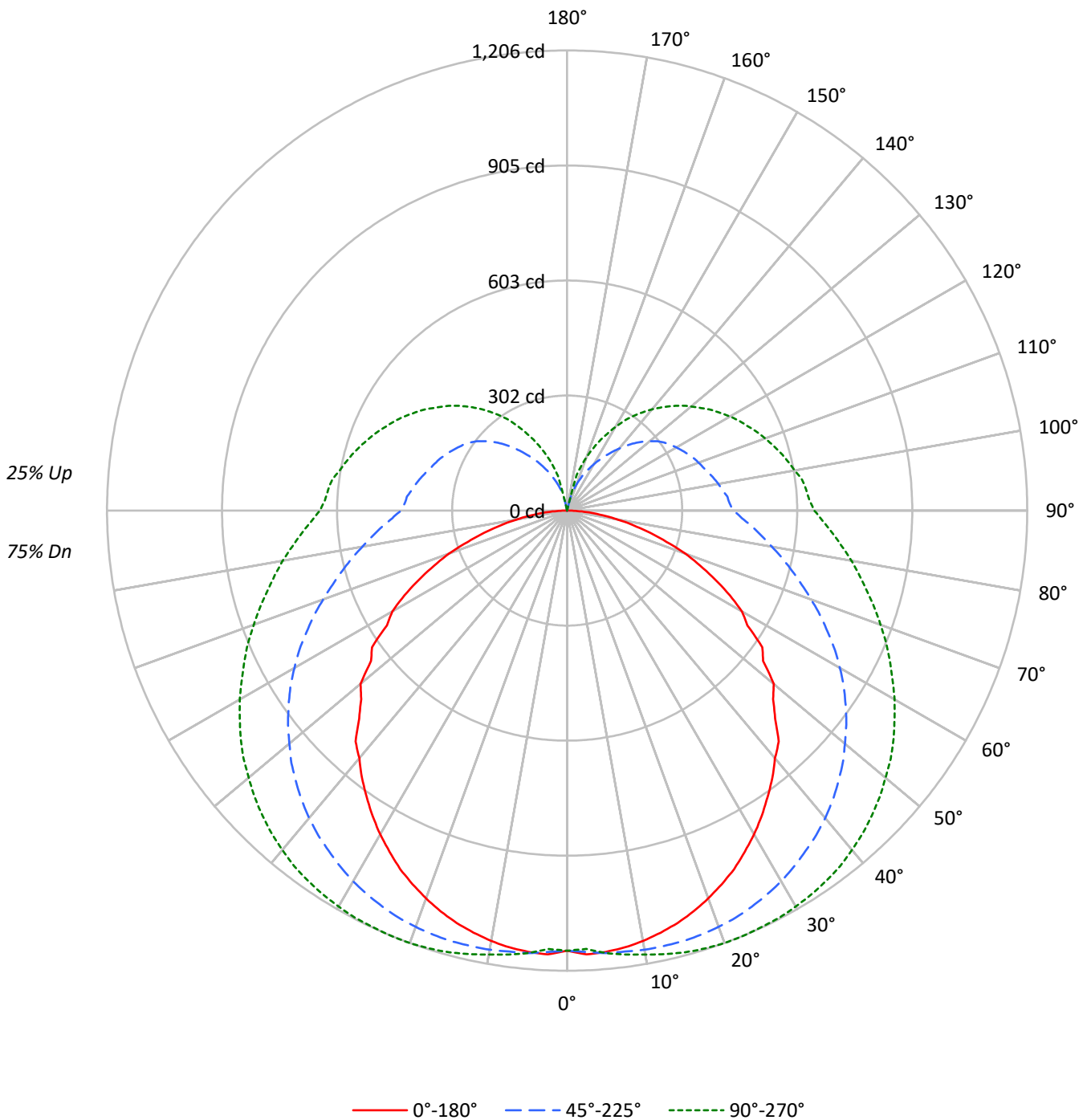
Lumens per Lamp: N/A
Luminaire Lumens: 6641.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 69
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



TEST NUMBER: P#
CATALOG NUMBER: 8SNLED-LD5-81SL-SLW-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-SLW-UNV-L940-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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°	4660	4660	4660
5°	4703	4610	4572
10°	4686	4572	4546
15°	4661	4552	4555
20°	4624	4536	4563
25°	4586	4523	4571
30°	4531	4514	4596
35°	4469	4501	4626
40°	4412	4503	4657
45°	4337	4499	4694
50°	4362	4494	4730
55°	4301	4500	4788
60°	4162	4511	4853
65°	3956	4524	4943
70°	3730	4568	5082
75°	3315	4688	5286
80°	2868	4935	5629
85°	2270	5426	6126



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-SLW-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	1.7
10°-20°	328.5	4.9
20°-30°	522.1	7.9
30°-40°	670.1	10.1
40°-50°	756.8	11.4
50°-60°	772.2	11.6
60°-70°	715.3	10.8
70°-80°	605.6	9.1
80°-90°	483.4	7.3
90°-100°	410.5	6.2
100°-110°	365.7	5.5
110°-120°	311.5	4.7
120°-130°	247.4	3.7
130°-140°	175.5	2.6
140°-150°	104.8	1.6
150°-160°	48.8	0.7
160°-170°	11.6	0.2
170°-180°	0.0	0.0
0°-30°	961.5	14.5
0°-40°	1631.7	24.6
0°-60°	3160.6	47.6
0°-90°	4965.0	74.8
90°-120°	1087.8	16.4
90°-150°	1615.5	24.3
90°-180°	1676.0	25.2
0°-180°	6641.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1153	1153	1153	1153	1153	
5°	1161	1152	1164	1164	1164	110
15°	1119	1128	1169	1191	1198	316
25°	1036	1070	1145	1186	1205	477
35°	916	983	1089	1156	1184	573
45°	771	876	1005	1092	1130	599
55°	624	729	891	1000	1044	548
65°	428	570	754	883	933	424
75°	225	398	610	760	813	239
85°	58	256	487	644	699	63
90°	3	209	435	593	648	5
95°	0	197	421	576	629	0
105°	0	181	384	529	580	0
115°	0	168	350	476	523	0
125°	0	145	310	420	460	0
135°	0	108	250	354	387	0
145°	0	70	175	265	303	1
155°	2	44	108	162	201	1
165°	2	23	48	67	95	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1153.2	1153.2	1153.2	1153.2	1153.2
2.5°	1164.2	1151.7	1157.9	1156.4	1150.1
5°	1161.0	1151.7	1164.2	1164.2	1164.2
7.5°	1154.8	1148.5	1165.7	1172.0	1173.5
10°	1145.4	1145.4	1168.8	1178.2	1181.3
12.5°	1132.9	1137.6	1168.8	1182.9	1190.7
15°	1118.9	1128.3	1168.8	1190.7	1198.5
17.5°	1101.7	1117.3	1165.7	1192.2	1203.2
20°	1081.4	1104.9	1161.0	1192.2	1206.3
22.5°	1059.6	1089.2	1154.8	1189.1	1206.3
25°	1036.2	1070.5	1145.4	1186.0	1204.7
27.5°	1008.1	1051.8	1134.5	1181.3	1203.2
30°	980.0	1029.9	1122.0	1175.1	1198.5
32.5°	948.8	1006.5	1106.4	1165.7	1192.2
35°	916.0	983.1	1089.2	1156.4	1184.4
37.5°	883.3	955.0	1072.1	1143.9	1175.1
40°	847.4	927.0	1051.8	1128.3	1161.0
42.5°	820.8	897.3	1029.9	1112.7	1147.0
45°	770.9	875.5	1005.0	1092.4	1129.8
47.5°	731.9	833.3	980.0	1072.1	1111.1
50°	706.9	799.0	950.4	1048.7	1089.2
52.5°	647.6	775.6	922.3	1025.3	1069.0
55°	624.2	728.8	891.1	1000.3	1044.0
57.5°	560.2	696.0	859.9	972.2	1017.5
60°	529.0	650.7	825.5	944.1	990.9
62.5°	480.6	611.7	791.2	912.9	961.3
65°	427.6	569.6	753.7	883.3	933.2
67.5°	377.6	527.5	717.8	852.0	905.1
70°	329.3	483.8	680.4	820.8	873.9
72.5°	273.1	440.1	644.5	791.2	844.2
75°	224.7	397.9	610.2	760.0	813.0
77.5°	177.9	357.4	577.4	731.9	784.9
80°	134.2	318.3	544.6	702.2	756.9
82.5°	93.6	285.6	515.0	674.1	727.2
85°	57.7	255.9	486.9	644.5	699.1
87.5°	26.5	229.4	458.8	616.4	672.6
90°	3.1	209.1	435.4	593.0	647.6
92.5°	1.6	202.9	426.0	582.1	635.1
95°	0.0	196.6	421.3	575.8	628.9
97.5°	0.0	190.4	410.4	566.5	621.1
100°	0.0	187.3	402.6	552.4	605.5
102.5°	0.0	182.6	393.3	539.9	593.0
105°	0.0	181.0	383.9	529.0	580.5
107.5°	0.0	177.9	374.5	515.0	566.5
110°	0.0	174.8	366.7	502.5	552.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	171.7	358.9	490.0	538.4
115°	0.0	168.5	349.6	476.0	522.8
117.5°	0.0	163.9	340.2	461.9	508.7
120°	0.0	157.6	330.8	449.4	493.1
122.5°	0.0	151.4	321.5	433.8	476.0
125°	0.0	145.1	310.5	419.8	460.4
127.5°	0.0	135.8	298.1	404.2	441.6
130°	0.0	126.4	282.5	388.6	424.5
132.5°	1.6	117.0	266.9	371.4	407.3
135°	0.0	107.7	249.7	354.2	387.0
137.5°	0.0	99.9	231.0	335.5	366.7
140°	0.0	90.5	212.2	313.7	346.4
142.5°	0.0	79.6	193.5	290.3	324.6
145°	0.0	70.2	174.8	265.3	302.7
147.5°	1.6	62.4	157.6	238.8	279.3
150°	1.6	56.2	140.4	212.2	252.8
152.5°	1.6	49.9	123.3	187.3	226.3
155°	1.6	43.7	107.7	162.3	201.3
157.5°	1.6	37.5	90.5	137.3	174.8
160°	1.6	32.8	74.9	115.5	149.8
162.5°	1.6	28.1	60.9	90.5	123.3
165°	1.6	23.4	48.4	67.1	95.2
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)