

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-LD5-120SL-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-LD5-120SL-SLW-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

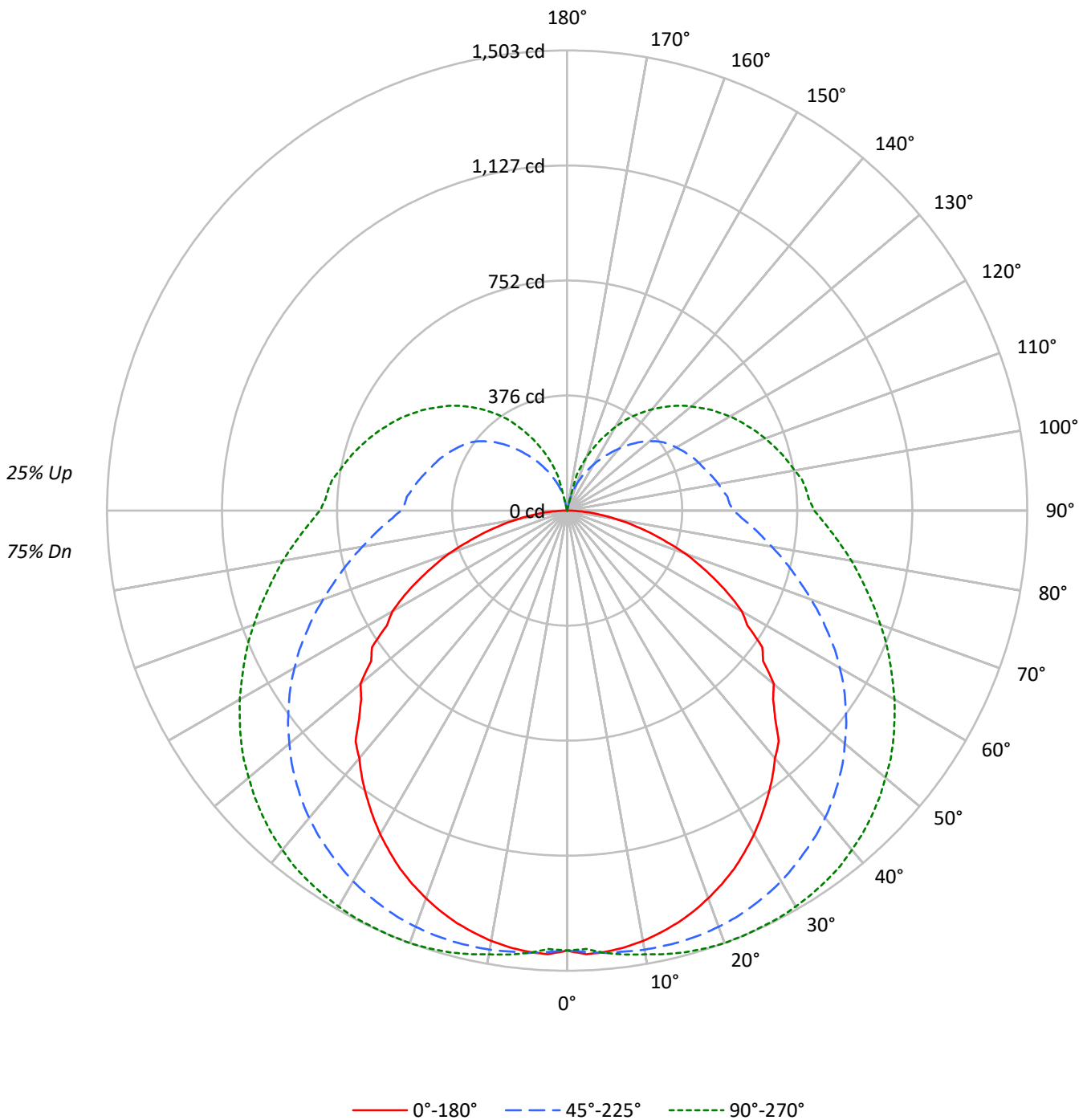
Lumens per Lamp: N/A
Luminaire Lumens: 8275.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 92
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-LD5-120SL-SLW-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-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°	5806	5806	5806
5°	5860	5745	5696
10°	5840	5698	5664
15°	5808	5672	5676
20°	5761	5652	5686
25°	5714	5637	5695
30°	5646	5625	5727
35°	5569	5609	5765
40°	5497	5611	5803
45°	5405	5606	5849
50°	5436	5599	5895
55°	5360	5607	5966
60°	5187	5621	6047
65°	4929	5637	6159
70°	4648	5692	6333
75°	4130	5842	6587
80°	3574	6149	7014
85°	2828	6761	7633



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-SLW-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	1.7
10°-20°	409.4	4.9
20°-30°	650.6	7.9
30°-40°	835.0	10.1
40°-50°	943.0	11.4
50°-60°	962.2	11.6
60°-70°	891.4	10.8
70°-80°	754.7	9.1
80°-90°	602.4	7.3
90°-100°	511.5	6.2
100°-110°	455.7	5.5
110°-120°	388.2	4.7
120°-130°	308.3	3.7
130°-140°	218.7	2.6
140°-150°	130.6	1.6
150°-160°	60.9	0.7
160°-170°	14.4	0.2
170°-180°	0.0	0.0
0°-30°	1198.1	14.5
0°-40°	2033.2	24.6
0°-60°	3938.3	47.6
0°-90°	6186.7	74.8
90°-120°	1355.4	16.4
90°-150°	2013.0	24.3
90°-180°	2088.0	25.2
0°-180°	8275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1447	1435	1451	1451	1451	137
15°	1394	1406	1456	1484	1493	393
25°	1291	1334	1427	1478	1501	594
35°	1141	1225	1357	1441	1476	715
45°	961	1091	1252	1361	1408	746
55°	778	908	1110	1246	1301	683
65°	533	710	939	1101	1163	529
75°	280	496	760	947	1013	298
85°	72	319	607	803	871	79
90°	4	261	542	739	807	6
95°	0	245	525	718	784	0
105°	0	226	478	659	723	0
115°	0	210	436	593	651	0
125°	0	181	387	523	574	0
135°	0	134	311	441	482	0
145°	0	88	218	331	377	1
155°	2	54	134	202	251	1
165°	2	29	60	84	119	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437.0	1437.0	1437.0	1437.0	1437.0
2.5°	1450.6	1435.0	1442.8	1440.9	1433.1
5°	1446.7	1435.0	1450.6	1450.6	1450.6
7.5°	1438.9	1431.1	1452.5	1460.3	1462.3
10°	1427.3	1427.3	1456.4	1468.1	1472.0
12.5°	1411.7	1417.5	1456.4	1473.9	1483.6
15°	1394.2	1405.9	1456.4	1483.6	1493.4
17.5°	1372.8	1392.3	1452.5	1485.6	1499.2
20°	1347.5	1376.7	1446.7	1485.6	1503.1
22.5°	1320.3	1357.3	1438.9	1481.7	1503.1
25°	1291.1	1333.9	1427.3	1477.8	1501.1
27.5°	1256.1	1310.6	1413.6	1472.0	1499.2
30°	1221.1	1283.4	1398.1	1464.2	1493.4
32.5°	1182.2	1254.2	1378.6	1452.5	1485.6
35°	1141.4	1225.0	1357.3	1440.9	1475.9
37.5°	1100.6	1190.0	1335.9	1425.3	1464.2
40°	1055.9	1155.0	1310.6	1405.9	1446.7
42.5°	1022.8	1118.1	1283.4	1386.4	1429.2
45°	960.6	1090.9	1252.3	1361.1	1407.8
47.5°	912.0	1038.4	1221.1	1335.9	1384.5
50°	880.9	995.6	1184.2	1306.7	1357.3
52.5°	807.0	966.4	1149.2	1277.5	1332.0
55°	777.8	908.1	1110.3	1246.4	1300.9
57.5°	698.1	867.2	1071.4	1211.4	1267.8
60°	659.2	810.9	1028.6	1176.4	1234.8
62.5°	598.9	762.2	985.9	1137.5	1197.8
65°	532.8	709.7	939.2	1100.6	1162.8
67.5°	470.6	657.2	894.5	1061.7	1127.8
70°	410.3	602.8	847.8	1022.8	1088.9
72.5°	340.3	548.3	803.1	985.9	1052.0
75°	280.0	495.8	760.3	947.0	1013.1
77.5°	221.7	445.3	719.5	912.0	978.1
80°	167.2	396.7	678.6	875.0	943.1
82.5°	116.7	355.8	641.7	840.0	906.1
85°	71.9	318.9	606.7	803.1	871.1
87.5°	33.1	285.8	571.7	768.1	838.1
90°	3.9	260.6	542.5	738.9	807.0
92.5°	1.9	252.8	530.8	725.3	791.4
95°	0.0	245.0	525.0	717.5	783.6
97.5°	0.0	237.2	511.4	705.8	773.9
100°	0.0	233.3	501.7	688.3	754.5
102.5°	0.0	227.5	490.0	672.8	738.9
105°	0.0	225.6	478.3	659.2	723.4
107.5°	0.0	221.7	466.7	641.7	705.8
110°	0.0	217.8	457.0	626.1	688.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	213.9	447.2	610.6	670.8
115°	0.0	210.0	435.6	593.1	651.4
117.5°	0.0	204.2	423.9	575.6	633.9
120°	0.0	196.4	412.2	560.0	614.5
122.5°	0.0	188.6	400.6	540.6	593.1
125°	0.0	180.8	387.0	523.1	573.6
127.5°	0.0	169.2	371.4	503.6	550.3
130°	0.0	157.5	352.0	484.2	528.9
132.5°	1.9	145.8	332.5	462.8	507.5
135°	0.0	134.2	311.1	441.4	482.2
137.5°	0.0	124.4	287.8	418.1	457.0
140°	0.0	112.8	264.5	390.8	431.7
142.5°	0.0	99.2	241.1	361.7	404.5
145°	0.0	87.5	217.8	330.6	377.2
147.5°	1.9	77.8	196.4	297.5	348.1
150°	1.9	70.0	175.0	264.5	315.0
152.5°	1.9	62.2	153.6	233.3	282.0
155°	1.9	54.4	134.2	202.2	250.8
157.5°	1.9	46.7	112.8	171.1	217.8
160°	1.9	40.8	93.3	143.9	186.7
162.5°	1.9	35.0	75.8	112.8	153.6
165°	1.9	29.2	60.3	83.6	118.6
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)