

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-LD5-127SL-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-127SL-SLC-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

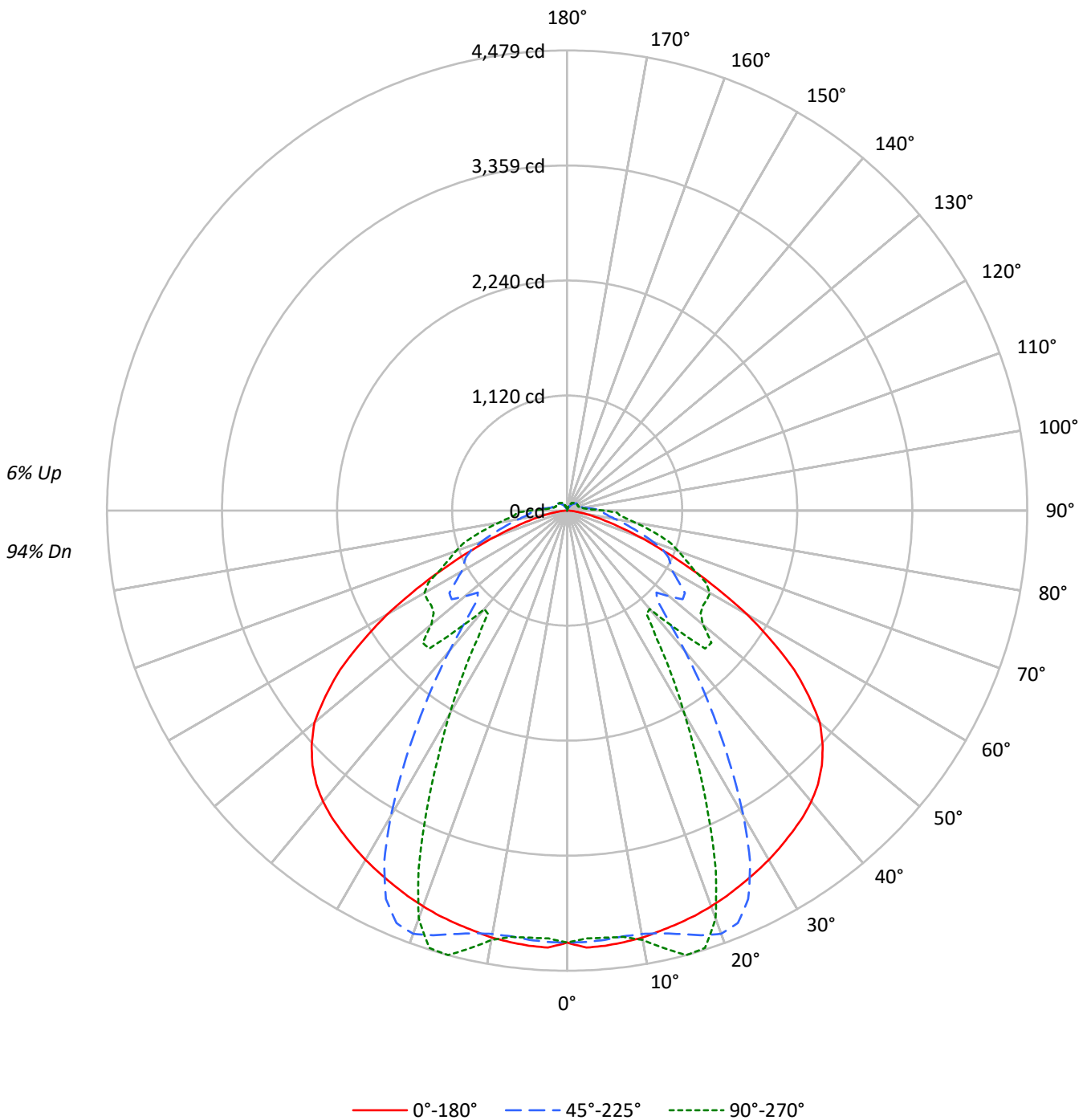
Lumens per Lamp: N/A
Luminaire Lumens: 10802.0 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 103
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-LD5-127SL-SLC-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-127SL-SLC-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	50	30	10	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94				94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78				78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66				66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56				56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49				49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43				43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38				38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34				34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30				30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28				28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16991	16991	16991
5°	17221	16608	16389
10°	17266	16371	16332
15°	17338	16616	17023
20°	17525	17126	15978
25°	17771	16474	12303
30°	18153	13811	8751
35°	18637	10470	5926
40°	19247	7619	5017
45°	19732	5533	7888
50°	19816	6135	7486
55°	18586	7069	7393
60°	15906	6480	7858
65°	12037	6547	7188
70°	8518	5974	6690
75°	5657	5020	6004
80°	3700	4318	4997
85°	2124	4128	4486



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-127SL-SLC-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.0	3.7
10°-20°	1208.2	11.2
20°-30°	1755.1	16.2
30°-40°	1676.9	15.5
40°-50°	1533.9	14.2
50°-60°	1416.3	13.1
60°-70°	1125.0	10.4
70°-80°	694.3	6.4
80°-90°	378.1	3.5
90°-100°	191.1	1.8
100°-110°	120.1	1.1
110°-120°	101.7	0.9
120°-130°	83.1	0.8
130°-140°	59.6	0.6
140°-150°	36.8	0.3
150°-160°	17.4	0.2
160°-170°	4.5	0.0
170°-180°	0.0	0.0
0°-30°	3363.3	31.1
0°-40°	5040.1	46.7
0°-60°	7990.3	74.0
0°-90°	10187.7	94.3
90°-120°	412.9	3.8
90°-150°	592.4	5.5
90°-180°	614.0	5.7
0°-180°	10802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4205	4205	4205	4205	4205	
5°	4252	4186	4194	4172	4174	405
15°	4162	4106	4266	4425	4479	1178
25°	4015	4093	4172	3531	3243	1856
35°	3820	3758	2534	1744	1517	2395
45°	3507	2446	1236	1577	1899	2695
55°	2697	1255	1400	1506	1612	2376
65°	1301	814	1091	1325	1357	1316
75°	384	434	653	866	923	435
85°	54	184	370	504	512	69
90°	2	138	331	393	363	3
95°	0	128	229	203	192	0
105°	0	115	142	128	127	0
115°	0	95	136	121	115	1
125°	2	76	121	117	112	1
135°	2	54	97	106	102	1
145°	2	34	67	86	91	1
155°	4	20	41	54	65	1
165°	4	11	20	26	35	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-127SL-SLC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4205.1	4205.1	4205.1	4205.1	4205.1
2.5°	4257.2	4195.8	4203.3	4190.2	4167.9
5°	4251.7	4186.5	4193.9	4171.6	4173.5
7.5°	4236.8	4169.7	4179.1	4175.3	4184.6
10°	4220.0	4149.3	4184.6	4216.3	4244.2
12.5°	4190.2	4126.9	4212.6	4305.6	4363.3
15°	4162.3	4106.5	4266.5	4424.8	4478.8
17.5°	4134.4	4099.0	4333.6	4471.3	4463.9
20°	4099.0	4095.3	4383.8	4337.3	4223.7
22.5°	4059.9	4097.1	4344.7	4004.1	3780.7
25°	4015.2	4093.4	4171.6	3531.3	3242.7
27.5°	3970.6	4076.7	3857.0	3013.8	2729.0
30°	3925.9	4032.0	3432.6	2540.9	2282.2
32.5°	3873.8	3935.2	2970.9	2122.1	1883.8
35°	3819.8	3758.4	2533.5	1744.2	1517.1
37.5°	3763.9	3503.3	2140.7	1412.9	1267.7
40°	3696.9	3183.2	1779.6	1211.8	1250.9
42.5°	3613.2	2822.0	1461.3	1271.4	1543.2
45°	3507.1	2446.0	1236.0	1576.7	1898.7
47.5°	3373.0	2084.9	1180.2	1805.6	1906.2
50°	3211.1	1753.5	1297.5	1731.2	1723.7
52.5°	2965.4	1478.0	1416.6	1578.5	1638.1
55°	2697.3	1254.6	1399.8	1505.9	1612.1
57.5°	2358.5	1103.9	1284.4	1491.1	1613.9
60°	2021.6	1003.3	1185.8	1489.2	1604.6
62.5°	1649.3	912.1	1135.5	1453.8	1522.7
65°	1301.2	813.5	1090.8	1325.4	1357.0
67.5°	997.8	713.0	1012.7	1182.0	1245.3
70°	752.0	614.3	889.8	1072.2	1150.4
72.5°	541.7	521.2	763.2	975.4	1057.3
75°	383.5	433.7	653.4	865.6	923.3
77.5°	264.3	353.7	560.3	744.6	791.1
80°	173.1	282.9	476.5	640.4	672.0
82.5°	104.2	227.1	413.3	560.3	577.1
85°	54.0	184.3	370.4	504.5	511.9
87.5°	16.8	154.5	346.2	478.4	487.7
90°	1.9	137.8	331.3	392.8	363.0
92.5°	0.0	130.3	286.7	268.1	240.1
95°	0.0	128.4	229.0	202.9	191.7
97.5°	0.0	124.7	188.0	169.4	163.8
100°	0.0	121.0	161.9	148.9	147.1
102.5°	0.0	119.1	147.1	135.9	134.0
105°	0.0	115.4	141.5	128.4	126.6
107.5°	0.0	109.8	137.8	124.7	121.0
110°	0.0	104.2	137.8	122.9	117.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-127SL-SLC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	98.7	137.8	121.0	115.4
115°	0.0	94.9	135.9	121.0	115.4
117.5°	1.9	91.2	134.0	121.0	115.4
120°	0.0	87.5	130.3	121.0	113.6
122.5°	1.9	81.9	126.6	119.1	113.6
125°	1.9	76.3	121.0	117.3	111.7
127.5°	1.9	70.7	115.4	113.6	108.0
130°	1.9	65.2	109.8	111.7	106.1
132.5°	1.9	59.6	102.4	108.0	104.2
135°	1.9	54.0	96.8	106.1	102.4
137.5°	1.9	48.4	89.4	100.5	100.5
140°	1.9	42.8	81.9	96.8	98.7
142.5°	1.9	39.1	74.5	93.1	94.9
145°	1.9	33.5	67.0	85.6	91.2
147.5°	1.9	29.8	59.6	78.2	85.6
150°	1.9	26.1	52.1	70.7	78.2
152.5°	1.9	22.3	46.5	61.4	72.6
155°	3.7	20.5	41.0	54.0	65.2
157.5°	3.7	16.8	33.5	46.5	55.8
160°	3.7	14.9	29.8	39.1	50.3
162.5°	3.7	13.0	24.2	33.5	42.8
165°	3.7	11.2	20.5	26.1	35.4
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)