

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-LD5-105SL-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-LD5-105SL-SLC-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

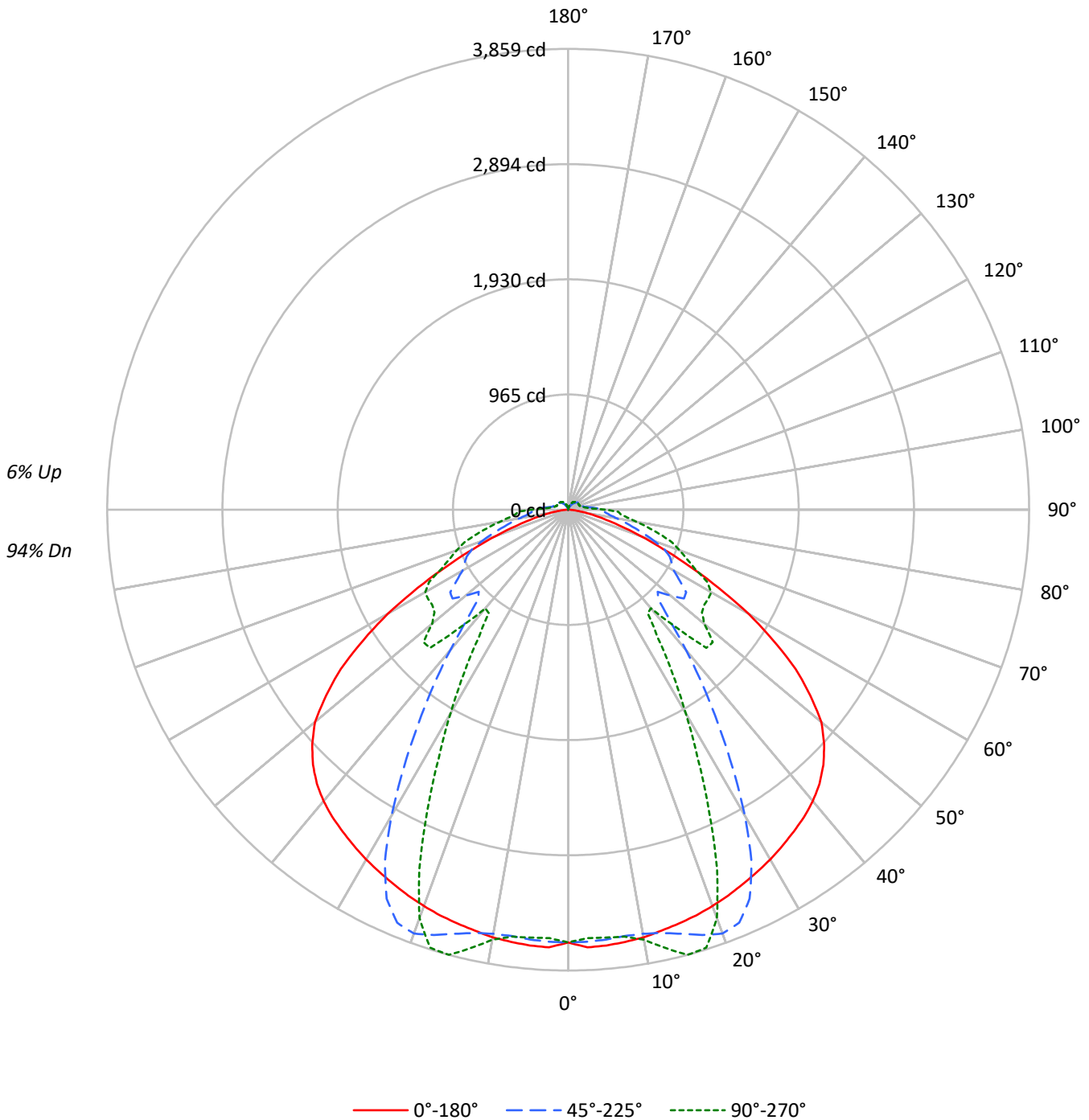
Lumens per Lamp: N/A
Luminaire Lumens: 9307.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 82
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-LD5-105SL-SLC-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-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	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14639	14639	14639
5°	14837	14310	14121
10°	14877	14105	14072
15°	14939	14317	14667
20°	15100	14756	13767
25°	15312	14194	10600
30°	15640	11899	7540
35°	16058	9021	5105
40°	16583	6564	4323
45°	17001	4767	6797
50°	17073	5285	6450
55°	16014	6091	6369
60°	13705	5583	6770
65°	10371	5641	6193
70°	7340	5147	5765
75°	4874	4326	5173
80°	3189	3720	4306
85°	1829	3557	3865



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-SLC-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.7	3.7
10°-20°	1040.9	11.2
20°-30°	1512.2	16.2
30°-40°	1444.8	15.5
40°-50°	1321.6	14.2
50°-60°	1220.3	13.1
60°-70°	969.3	10.4
70°-80°	598.3	6.4
80°-90°	325.8	3.5
90°-100°	164.7	1.8
100°-110°	103.5	1.1
110°-120°	87.7	0.9
120°-130°	71.6	0.8
130°-140°	51.3	0.6
140°-150°	31.7	0.3
150°-160°	15.0	0.2
160°-170°	3.9	0.0
170°-180°	0.0	0.0
0°-30°	2897.8	31.1
0°-40°	4342.6	46.7
0°-60°	6884.4	74.0
0°-90°	8777.7	94.3
90°-120°	355.8	3.8
90°-150°	510.4	5.5
90°-180°	529.0	5.7
0°-180°	9307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3623	3623	3623	3623	3623	
5°	3663	3607	3614	3594	3596	349
15°	3586	3538	3676	3812	3859	1015
25°	3460	3527	3594	3042	2794	1599
35°	3291	3238	2183	1503	1307	2064
45°	3022	2108	1065	1358	1636	2322
55°	2324	1081	1206	1298	1389	2047
65°	1121	701	940	1142	1169	1134
75°	330	374	563	746	796	375
85°	46	159	319	435	441	59
90°	2	119	286	338	313	2
95°	0	111	197	175	165	0
105°	0	99	122	111	109	0
115°	0	82	117	104	99	1
125°	2	66	104	101	96	1
135°	2	46	83	91	88	1
145°	2	29	58	74	79	1
155°	3	18	35	46	56	1
165°	3	10	18	22	30	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-SLC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3623.1	3623.1	3623.1	3623.1	3623.1
2.5°	3668.0	3615.1	3621.5	3610.3	3591.0
5°	3663.2	3607.1	3613.5	3594.3	3595.9
7.5°	3650.4	3592.7	3600.7	3597.5	3605.5
10°	3636.0	3575.0	3605.5	3632.7	3656.8
12.5°	3610.3	3555.8	3629.5	3709.7	3759.5
15°	3586.2	3538.1	3676.1	3812.4	3858.9
17.5°	3562.2	3531.7	3733.8	3852.5	3846.1
20°	3531.7	3528.5	3777.1	3737.0	3639.2
22.5°	3498.0	3530.1	3743.4	3449.9	3257.4
25°	3459.5	3526.9	3594.3	3042.5	2793.9
27.5°	3421.0	3512.5	3323.2	2596.7	2351.3
30°	3382.5	3474.0	2957.5	2189.3	1966.3
32.5°	3337.6	3390.6	2559.8	1828.4	1623.1
35°	3291.1	3238.2	2182.9	1502.8	1307.1
37.5°	3243.0	3018.5	1844.4	1217.3	1092.2
40°	3185.3	2742.6	1533.3	1044.1	1077.8
42.5°	3113.1	2431.5	1259.0	1095.4	1329.6
45°	3021.7	2107.5	1065.0	1358.5	1635.9
47.5°	2906.2	1796.3	1016.8	1555.7	1642.4
50°	2766.7	1510.8	1117.9	1491.6	1485.2
52.5°	2555.0	1273.5	1220.5	1360.1	1411.4
55°	2324.0	1081.0	1206.1	1297.5	1388.9
57.5°	2032.1	951.1	1106.7	1284.7	1390.5
60°	1741.8	864.5	1021.7	1283.1	1382.5
62.5°	1421.0	785.9	978.4	1252.6	1312.0
65°	1121.1	700.9	939.9	1142.0	1169.2
67.5°	859.7	614.3	872.5	1018.5	1073.0
70°	648.0	529.3	766.6	923.8	991.2
72.5°	466.7	449.1	657.6	840.4	911.0
75°	330.4	373.7	563.0	745.8	795.5
77.5°	227.7	304.7	482.8	641.5	681.6
80°	149.2	243.8	410.6	551.7	579.0
82.5°	89.8	195.7	356.1	482.8	497.2
85°	46.5	158.8	319.2	434.6	441.1
87.5°	14.4	133.1	298.3	412.2	420.2
90°	1.6	118.7	285.5	338.4	312.8
92.5°	0.0	112.3	247.0	231.0	206.9
95°	0.0	110.7	197.3	174.8	165.2
97.5°	0.0	107.5	162.0	146.0	141.1
100°	0.0	104.3	139.5	128.3	126.7
102.5°	0.0	102.6	126.7	117.1	115.5
105°	0.0	99.4	121.9	110.7	109.1
107.5°	0.0	94.6	118.7	107.5	104.3
110°	0.0	89.8	118.7	105.9	101.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-SLC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	85.0	118.7	104.3	99.4
115°	0.0	81.8	117.1	104.3	99.4
117.5°	1.6	78.6	115.5	104.3	99.4
120°	0.0	75.4	112.3	104.3	97.8
122.5°	1.6	70.6	109.1	102.6	97.8
125°	1.6	65.8	104.3	101.0	96.2
127.5°	1.6	60.9	99.4	97.8	93.0
130°	1.6	56.1	94.6	96.2	91.4
132.5°	1.6	51.3	88.2	93.0	89.8
135°	1.6	46.5	83.4	91.4	88.2
137.5°	1.6	41.7	77.0	86.6	86.6
140°	1.6	36.9	70.6	83.4	85.0
142.5°	1.6	33.7	64.2	80.2	81.8
145°	1.6	28.9	57.7	73.8	78.6
147.5°	1.6	25.7	51.3	67.4	73.8
150°	1.6	22.5	44.9	60.9	67.4
152.5°	1.6	19.2	40.1	52.9	62.6
155°	3.2	17.6	35.3	46.5	56.1
157.5°	3.2	14.4	28.9	40.1	48.1
160°	3.2	12.8	25.7	33.7	43.3
162.5°	3.2	11.2	20.9	28.9	36.9
165°	3.2	9.6	17.6	22.5	30.5
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)