

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-L830-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-L830-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

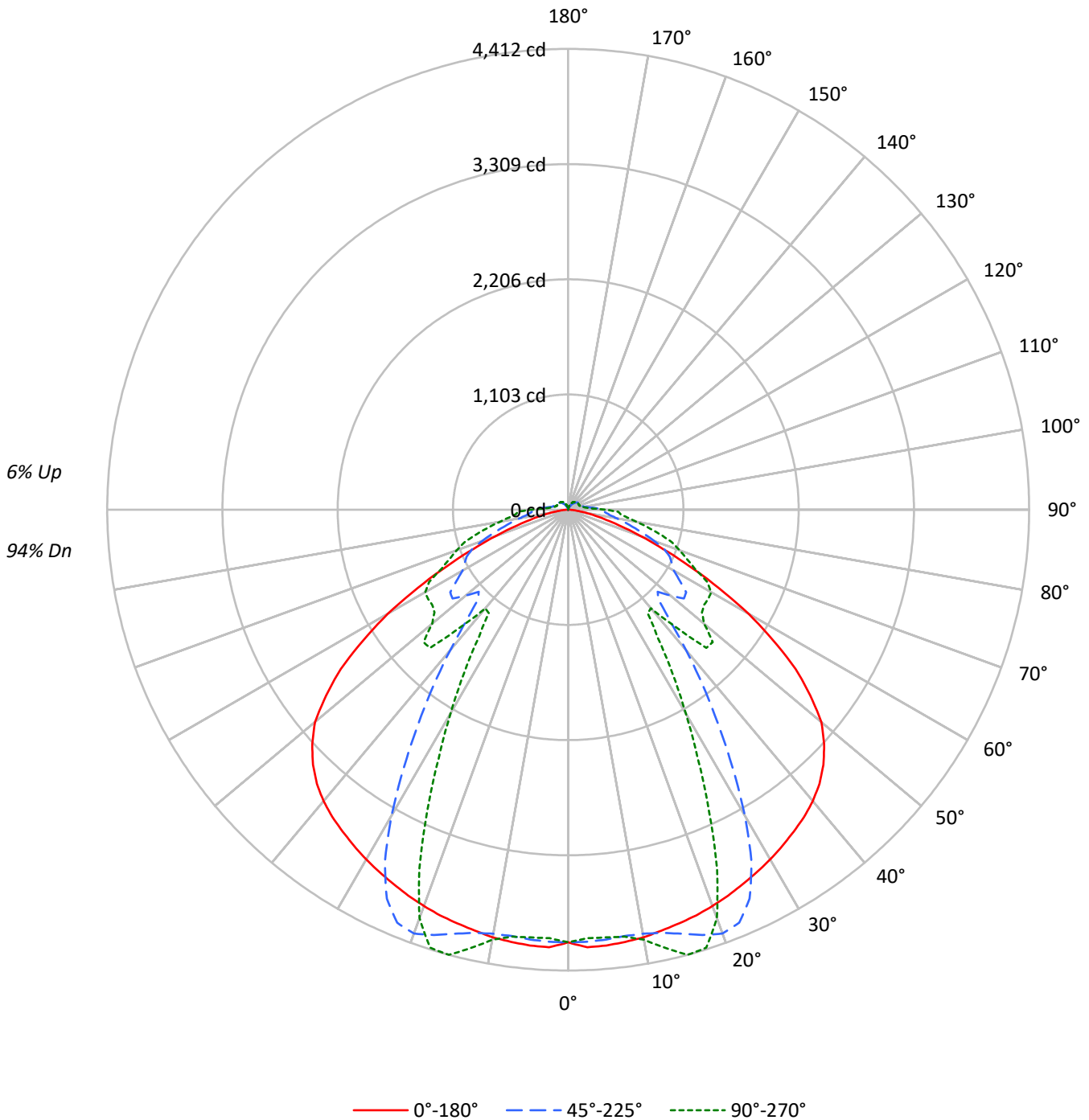
Lumens per Lamp: N/A
Luminaire Lumens: 10640.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): 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
RC	80					70						30							10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50
RCR																			
0	118	118	118	118		114	114	114	114		108	108	108		102	102	102		97
1	107	102	98	94		104	99	95	92		94	91	88		89	87	84		85
2	98	90	83	77		95	87	81	76		83	78	73		79	74	71		75
3	89	79	71	65		87	77	70	64		73	67	62		70	65	60		67
4	82	71	62	56		80	69	61	55		66	59	53		63	57	52		60
5	76	63	55	48		74	62	54	48		59	52	47		57	51	46		54
6	70	58	49	43		68	56	48	42		54	47	41		52	45	41		50
7	66	52	44	38		64	51	43	38		49	42	37		47	41	36		46
8	61	48	40	34		59	47	39	34		45	38	33		44	37	33		42
9	57	44	36	31		56	44	36	31		42	35	30		41	34	30		39
10	54	41	33	28		52	40	33	28		39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16736	16736	16736
5°	16963	16359	16143
10°	17007	16125	16088
15°	17079	16367	16767
20°	17262	16869	15739
25°	17505	16227	12119
30°	17880	13603	8620
35°	18358	10313	5837
40°	18959	7505	4942
45°	19436	5450	7770
50°	19518	6042	7374
55°	18308	6963	7282
60°	15668	6382	7740
65°	11857	6449	7080
70°	8391	5884	6590
75°	5572	4945	5914
80°	3644	4253	4922
85°	2093	4066	4418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.0	3.7
10°-20°	1190.0	11.2
20°-30°	1728.7	16.2
30°-40°	1651.7	15.5
40°-50°	1510.9	14.2
50°-60°	1395.0	13.1
60°-70°	1108.1	10.4
70°-80°	683.9	6.4
80°-90°	372.4	3.5
90°-100°	188.2	1.8
100°-110°	118.3	1.1
110°-120°	100.2	0.9
120°-130°	81.8	0.8
130°-140°	58.7	0.6
140°-150°	36.2	0.3
150°-160°	17.2	0.2
160°-170°	4.5	0.0
170°-180°	0.0	0.0
0°-30°	3312.8	31.1
0°-40°	4964.5	46.7
0°-60°	7870.4	74.0
0°-90°	10034.9	94.3
90°-120°	406.7	3.8
90°-150°	583.5	5.5
90°-180°	605.0	5.7
0°-180°	10640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4142	4142	4142	4142	4142	
5°	4188	4124	4131	4109	4111	399
15°	4100	4045	4203	4358	4412	1160
25°	3955	4032	4109	3478	3194	1828
35°	3762	3702	2496	1718	1494	2359
45°	3454	2409	1218	1553	1870	2655
55°	2657	1236	1379	1483	1588	2340
65°	1282	801	1074	1306	1337	1296
75°	378	427	644	853	910	428
85°	53	182	365	497	504	68
90°	2	136	326	387	358	3
95°	0	126	226	200	189	0
105°	0	114	139	126	125	0
115°	0	94	134	119	114	1
125°	2	75	119	116	110	1
135°	2	53	95	104	101	1
145°	2	33	66	84	90	1
155°	4	20	40	53	64	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-LD5-105SL-SLC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4142.1	4142.1	4142.1	4142.1	4142.1
2.5°	4193.4	4132.9	4140.2	4127.4	4105.4
5°	4187.9	4123.7	4131.0	4109.0	4110.9
7.5°	4173.2	4107.2	4116.4	4112.7	4121.9
10°	4156.7	4087.0	4121.9	4153.1	4180.6
12.5°	4127.4	4065.0	4149.4	4241.1	4297.9
15°	4099.9	4044.9	4202.6	4358.4	4411.6
17.5°	4072.4	4037.5	4268.6	4404.3	4396.9
20°	4037.5	4033.9	4318.1	4272.2	4160.4
22.5°	3999.0	4035.7	4279.6	3944.0	3724.0
25°	3955.0	4032.0	4109.0	3478.3	3194.1
27.5°	3911.0	4015.5	3799.2	2968.6	2688.0
30°	3867.0	3971.5	3381.1	2502.8	2248.0
32.5°	3815.7	3876.2	2926.4	2090.3	1855.6
35°	3762.5	3702.0	2495.5	1718.1	1494.4
37.5°	3707.5	3450.8	2108.6	1391.7	1248.7
40°	3641.5	3135.4	1752.9	1193.7	1232.2
42.5°	3559.0	2779.7	1439.4	1252.3	1520.0
45°	3454.5	2409.3	1217.5	1553.0	1870.2
47.5°	3322.4	2053.6	1162.5	1778.6	1877.6
50°	3162.9	1727.2	1278.0	1705.2	1697.9
52.5°	2920.9	1455.9	1395.4	1554.9	1613.5
55°	2656.9	1235.8	1378.8	1483.4	1587.9
57.5°	2323.1	1087.3	1265.2	1468.7	1589.7
60°	1991.3	988.3	1168.0	1466.9	1580.5
62.5°	1624.5	898.5	1118.5	1432.0	1499.9
65°	1281.7	801.3	1074.5	1305.5	1336.7
67.5°	982.8	702.3	997.5	1164.3	1226.7
70°	740.8	605.1	876.4	1056.1	1133.2
72.5°	533.6	513.4	751.8	960.8	1041.5
75°	377.7	427.2	643.6	852.6	909.5
77.5°	260.4	348.4	551.9	733.4	779.3
80°	170.5	278.7	469.4	630.8	661.9
82.5°	102.7	223.7	407.1	551.9	568.4
85°	53.2	181.5	364.9	496.9	504.2
87.5°	16.5	152.2	341.0	471.2	480.4
90°	1.8	135.7	326.4	386.9	357.5
92.5°	0.0	128.4	282.4	264.0	236.5
95°	0.0	126.5	225.5	199.9	188.9
97.5°	0.0	122.8	185.2	166.9	161.4
100°	0.0	119.2	159.5	146.7	144.9
102.5°	0.0	117.3	144.9	133.9	132.0
105°	0.0	113.7	139.4	126.5	124.7
107.5°	0.0	108.2	135.7	122.8	119.2
110°	0.0	102.7	135.7	121.0	115.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	97.2	135.7	119.2	113.7
115°	0.0	93.5	133.9	119.2	113.7
117.5°	1.8	89.8	132.0	119.2	113.7
120°	0.0	86.2	128.4	119.2	111.8
122.5°	1.8	80.7	124.7	117.3	111.8
125°	1.8	75.2	119.2	115.5	110.0
127.5°	1.8	69.7	113.7	111.8	106.3
130°	1.8	64.2	108.2	110.0	104.5
132.5°	1.8	58.7	100.8	106.3	102.7
135°	1.8	53.2	95.3	104.5	100.8
137.5°	1.8	47.7	88.0	99.0	99.0
140°	1.8	42.2	80.7	95.3	97.2
142.5°	1.8	38.5	73.3	91.7	93.5
145°	1.8	33.0	66.0	84.3	89.8
147.5°	1.8	29.3	58.7	77.0	84.3
150°	1.8	25.7	51.3	69.7	77.0
152.5°	1.8	22.0	45.8	60.5	71.5
155°	3.7	20.2	40.3	53.2	64.2
157.5°	3.7	16.5	33.0	45.8	55.0
160°	3.7	14.7	29.3	38.5	49.5
162.5°	3.7	12.8	23.8	33.0	42.2
165°	3.7	11.0	20.2	25.7	34.8
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)