

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-L840-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-L840-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

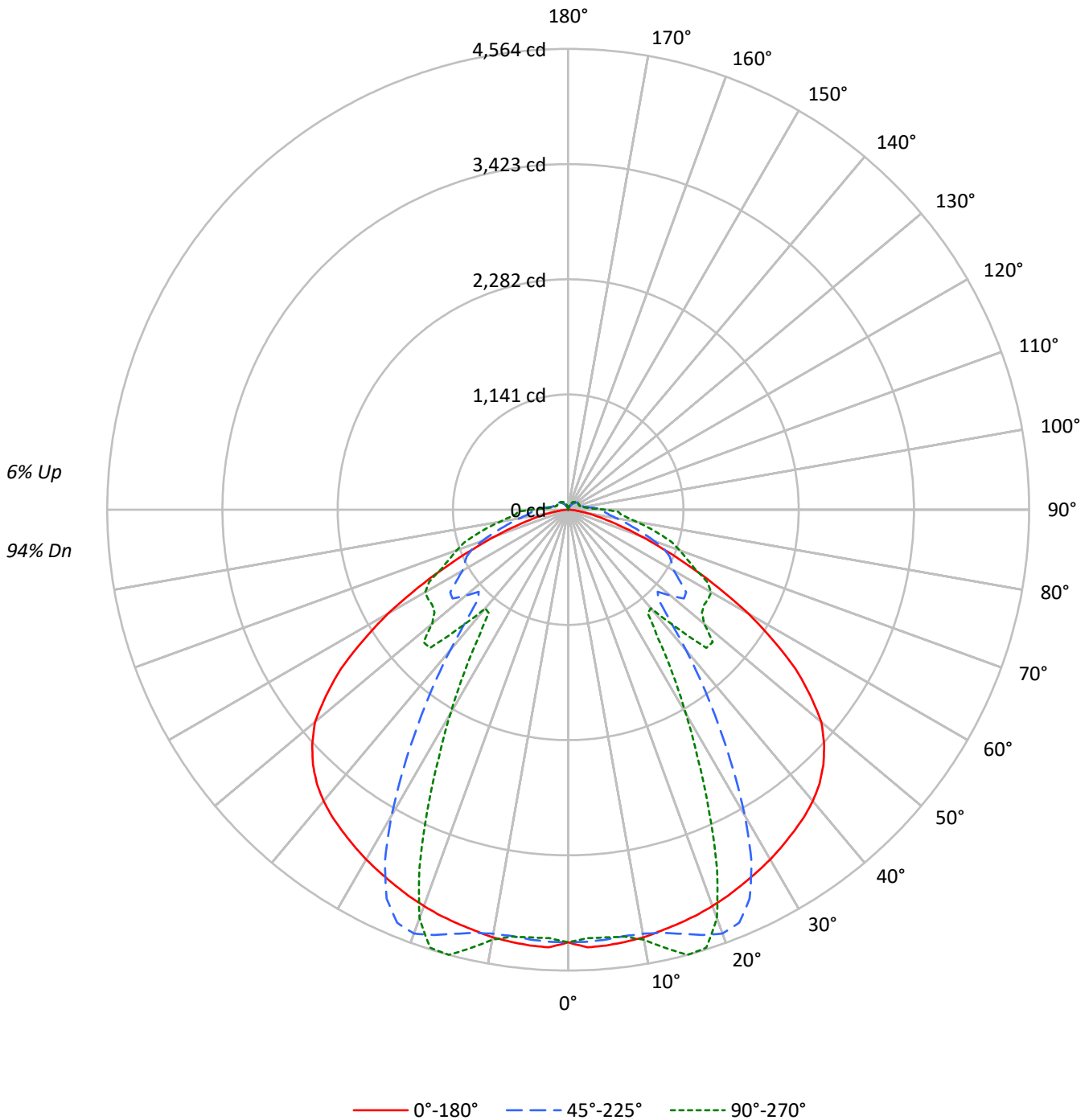
Lumens per Lamp: N/A  
Luminaire Lumens: 11007.0 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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**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°	17313	17313	17313
5°	17548	16924	16700
10°	17594	16682	16642
15°	17668	16931	17346
20°	17858	17451	16282
25°	18108	16787	12537
30°	18497	14072	8917
35°	18991	10669	6038
40°	19612	7764	5113
45°	20106	5638	8038
50°	20192	6251	7629
55°	18939	7204	7533
60°	16207	6603	8007
65°	12265	6671	7324
70°	8680	6087	6817
75°	5763	5116	6117
80°	3770	4400	5093
85°	2163	4207	4571



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.6	3.7
10°-20°	1231.1	11.2
20°-30°	1788.4	16.2
30°-40°	1708.7	15.5
40°-50°	1563.0	14.2
50°-60°	1443.2	13.1
60°-70°	1146.3	10.4
70°-80°	707.5	6.4
80°-90°	385.3	3.5
90°-100°	194.7	1.8
100°-110°	122.4	1.1
110°-120°	103.7	0.9
120°-130°	84.7	0.8
130°-140°	60.7	0.6
140°-150°	37.4	0.3
150°-160°	17.8	0.2
160°-170°	4.6	0.0
170°-180°	0.0	0.0
0°-30°	3427.1	31.1
0°-40°	5135.8	46.7
0°-60°	8141.9	74.0
0°-90°	10381.0	94.3
90°-120°	420.8	3.8
90°-150°	603.6	5.5
90°-180°	626.0	5.7
0°-180°	11007.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4285	4285	4285	4285	4285	
5°	4332	4266	4274	4251	4253	412
15°	4241	4184	4348	4509	4564	1200
25°	4091	4171	4251	3598	3304	1891
35°	3892	3830	2582	1777	1546	2441
45°	3574	2492	1260	1607	1935	2746
55°	2748	1278	1426	1534	1643	2421
65°	1326	829	1112	1350	1383	1341
75°	391	442	666	882	941	443
85°	55	188	378	514	522	70
90°	2	140	338	400	370	3
95°	0	131	233	207	195	0
105°	0	118	144	131	129	0
115°	0	97	138	123	118	1
125°	2	78	123	120	114	1
135°	2	55	99	108	104	1
145°	2	34	68	87	93	1
155°	4	21	42	55	66	1
165°	4	11	21	27	36	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-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4284.9	4284.9	4284.9	4284.9	4284.9
2.5°	4338.0	4275.4	4283.0	4269.7	4247.0
5°	4332.3	4266.0	4273.5	4250.8	4252.7
7.5°	4317.2	4248.9	4258.4	4254.6	4264.1
10°	4300.1	4228.0	4264.1	4296.3	4324.8
12.5°	4269.7	4205.3	4292.5	4387.3	4446.1
15°	4241.3	4184.4	4347.5	4508.7	4563.8
17.5°	4212.8	4176.8	4415.8	4556.2	4548.6
20°	4176.8	4173.0	4467.0	4419.6	4303.9
22.5°	4137.0	4174.9	4427.2	4080.1	3852.4
25°	4091.4	4171.1	4250.8	3598.3	3304.3
27.5°	4045.9	4154.0	3930.2	3071.0	2780.7
30°	4000.4	4108.5	3497.7	2589.2	2325.5
32.5°	3947.3	4009.9	3027.3	2162.4	1919.6
35°	3892.3	3829.7	2581.6	1777.3	1545.9
37.5°	3835.4	3569.8	2181.3	1439.7	1291.7
40°	3767.1	3243.6	1813.4	1234.8	1274.7
42.5°	3681.7	2875.6	1489.0	1295.5	1572.5
45°	3573.6	2492.4	1259.5	1606.6	1934.8
47.5°	3437.0	2124.4	1202.6	1839.9	1942.3
50°	3272.0	1786.8	1322.1	1764.0	1756.5
52.5°	3021.6	1506.1	1443.5	1608.5	1669.2
55°	2748.5	1278.5	1426.4	1534.5	1642.6
57.5°	2403.3	1124.8	1308.8	1519.4	1644.5
60°	2059.9	1022.4	1208.3	1517.5	1635.1
62.5°	1680.6	929.4	1157.1	1481.4	1551.6
65°	1325.9	828.9	1111.5	1350.5	1382.8
67.5°	1016.7	726.5	1031.9	1204.5	1269.0
70°	766.3	626.0	906.7	1092.6	1172.2
72.5°	552.0	531.1	777.7	993.9	1077.4
75°	390.7	442.0	665.8	882.0	940.8
77.5°	269.3	360.4	570.9	758.7	806.1
80°	176.4	288.3	485.6	652.5	684.8
82.5°	106.2	231.4	421.1	570.9	588.0
85°	55.0	187.8	377.5	514.0	521.6
87.5°	17.1	157.4	352.8	487.5	497.0
90°	1.9	140.4	337.6	400.2	369.9
92.5°	0.0	132.8	292.1	273.1	244.7
95°	0.0	130.9	233.3	206.8	195.4
97.5°	0.0	127.1	191.6	172.6	166.9
100°	0.0	123.3	165.0	151.7	149.8
102.5°	0.0	121.4	149.8	138.5	136.6
105°	0.0	117.6	144.2	130.9	129.0
107.5°	0.0	111.9	140.4	127.1	123.3
110°	0.0	106.2	140.4	125.2	119.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	100.5	140.4	123.3	117.6
115°	0.0	96.7	138.5	123.3	117.6
117.5°	1.9	92.9	136.6	123.3	117.6
120°	0.0	89.2	132.8	123.3	115.7
122.5°	1.9	83.5	129.0	121.4	115.7
125°	1.9	77.8	123.3	119.5	113.8
127.5°	1.9	72.1	117.6	115.7	110.0
130°	1.9	66.4	111.9	113.8	108.1
132.5°	1.9	60.7	104.3	110.0	106.2
135°	1.9	55.0	98.6	108.1	104.3
137.5°	1.9	49.3	91.0	102.4	102.4
140°	1.9	43.6	83.5	98.6	100.5
142.5°	1.9	39.8	75.9	94.8	96.7
145°	1.9	34.1	68.3	87.3	92.9
147.5°	1.9	30.3	60.7	79.7	87.3
150°	1.9	26.6	53.1	72.1	79.7
152.5°	1.9	22.8	47.4	62.6	74.0
155°	3.8	20.9	41.7	55.0	66.4
157.5°	3.8	17.1	34.1	47.4	56.9
160°	3.8	15.2	30.3	39.8	51.2
162.5°	3.8	13.3	24.7	34.1	43.6
165°	3.8	11.4	20.9	26.6	36.0
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)