

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: P406600

Luminaire Tested: **8SLSTP8050DD-UNV**

Issue Date: 08/06/2020

Test Information

Test Method: LM-79-08
Report Number: P406600
Test Lab: INNOVATION CENTER-P2
Issue Date: 08/06/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SLSTP8050DD-UNV
Description: 8FT LENSED LED STRIPLIGHT
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2004-752-4)
Light Source: (160) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRICAL DRIVER

Summary

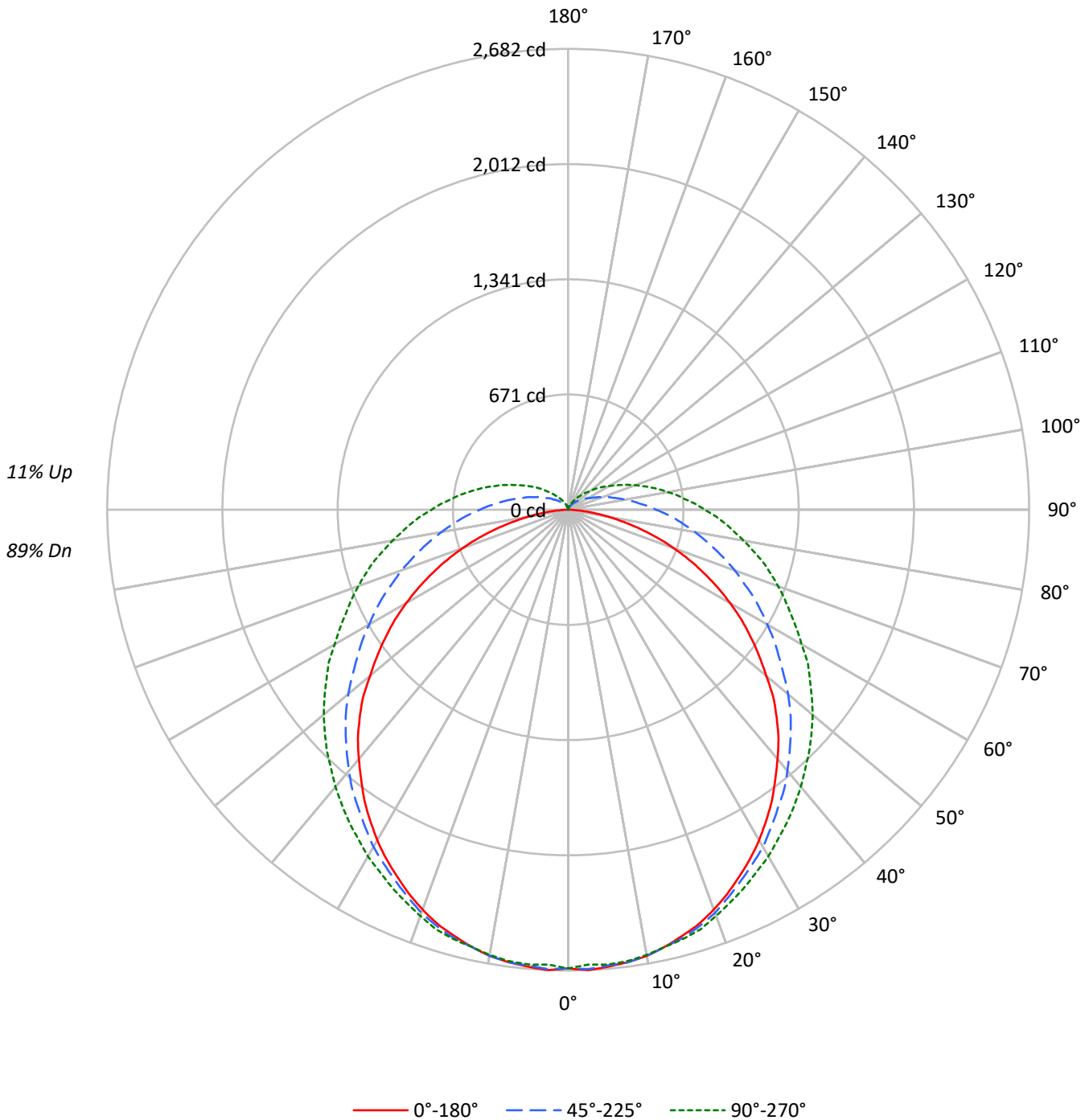
Lumens per Lamp: N/A
Luminaire Lumens: 9917.9 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 75.8
Input Voltage (V): 120
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				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	117	117	117	117	113	113	113	113	105	105	105	98	98	98	92	92	92	89
1	104	98	93	89	100	95	90	86	89	85	81	83	80	77	78	75	73	70
2	94	85	77	70	90	82	75	69	76	71	66	71	67	62	67	63	59	57
3	85	74	65	58	82	71	63	56	67	60	54	62	57	52	58	54	50	47
4	78	65	56	48	74	63	54	47	59	51	46	55	49	44	52	47	42	40
5	71	58	48	41	68	56	47	41	53	45	39	49	43	38	47	41	36	34
6	66	52	43	36	63	50	42	35	47	40	34	45	38	33	42	36	32	29
7	61	47	38	31	58	45	37	31	43	35	30	41	34	29	38	33	28	26
8	56	43	34	28	54	41	33	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	25	51	38	30	25	36	29	24	34	28	23	33	27	23	21
10	49	36	28	23	48	35	27	22	33	26	22	32	26	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21548	21548	21548
5°	21611	20918	20625
10°	21579	20325	19819
15°	21393	19658	19060
20°	21201	18956	18284
25°	20881	18155	17524
30°	20582	17481	16854
35°	20228	16718	16214
40°	19794	16051	15634
45°	19384	15358	15103
50°	18660	14672	14609
55°	18021	13911	14086
60°	17259	13291	13570
65°	16265	12751	13158
70°	14982	12214	12921
75°	13070	11739	12749
80°	10395	11427	12569
85°	6357	11337	12626



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.2	2.6
10°-20°	726.9	7.3
20°-30°	1100.1	11.1
30°-40°	1336.0	13.5
40°-50°	1420.2	14.3
50°-60°	1346.6	13.6
60°-70°	1155.9	11.7
70°-80°	895.7	9.0
80°-90°	627.1	6.3
90°-100°	421.5	4.3
100°-110°	275.0	2.8
110°-120°	169.6	1.7
120°-130°	98.8	1.0
130°-140°	52.6	0.5
140°-150°	25.4	0.3
150°-160°	9.9	0.1
160°-170°	3.1	0.0
170°-180°	0.2	0.0
0°-30°	2080.2	21.0
0°-40°	3416.3	34.4
0°-60°	6183.1	62.3
0°-90°	8861.8	89.4
90°-120°	866.1	8.7
90°-150°	1043.0	10.5
90°-180°	1056.0	10.6
0°-180°	9917.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2669	2669	2669	2669	2669	
5°	2669	2669	2663	2650	2656	254
15°	2567	2573	2580	2573	2586	725
25°	2356	2362	2381	2407	2426	1086
35°	2068	2074	2125	2189	2221	1291
45°	1716	1741	1831	1940	1984	1321
55°	1299	1351	1498	1664	1716	1162
65°	870	967	1184	1363	1427	861
75°	435	608	883	1088	1171	463
85°	77	320	627	838	915	98
90°	6	224	512	723	794	5
95°	0	154	416	614	685	0
105°	0	77	269	435	499	0
115°	0	45	166	294	339	0
125°	0	32	102	186	224	0
135°	0	19	64	115	134	0
145°	0	19	38	64	77	0
155°	0	13	19	32	38	0
165°	0	6	13	13	19	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2669.2	2669.2	2669.2	2669.2	2669.2
2.5°	2682.0	2682.0	2675.6	2656.4	2650.0
5°	2669.2	2669.2	2662.8	2650.0	2656.4
7.5°	2656.4	2656.4	2656.4	2643.6	2650.0
10°	2637.2	2637.2	2637.2	2618.0	2630.8
12.5°	2605.2	2611.6	2605.2	2598.8	2605.2
15°	2566.8	2573.2	2579.6	2573.2	2586.0
17.5°	2528.4	2528.4	2541.2	2547.6	2560.4
20°	2477.2	2483.6	2496.4	2502.8	2515.6
22.5°	2419.6	2419.6	2438.8	2451.6	2470.8
25°	2355.6	2362.0	2381.2	2406.8	2426.0
27.5°	2291.6	2298.0	2323.6	2355.6	2374.8
30°	2221.2	2227.6	2266.0	2304.4	2330.0
32.5°	2144.3	2150.7	2195.6	2246.8	2272.4
35°	2067.5	2073.9	2125.1	2189.2	2221.2
37.5°	1977.9	1997.1	2061.1	2131.5	2163.5
40°	1894.7	1913.9	1984.3	2067.5	2105.9
42.5°	1811.5	1830.7	1907.5	2009.9	2041.9
45°	1715.5	1741.1	1830.7	1939.5	1984.3
47.5°	1619.5	1651.5	1753.9	1869.1	1920.3
50°	1504.2	1542.6	1670.7	1798.7	1856.3
52.5°	1401.8	1446.6	1581.1	1734.7	1785.9
55°	1299.4	1350.6	1497.8	1664.3	1715.5
57.5°	1197.0	1254.6	1421.0	1581.1	1651.5
60°	1088.2	1158.6	1337.8	1504.2	1568.3
62.5°	979.4	1062.6	1261.0	1433.8	1497.8
65°	870.5	966.6	1184.2	1363.4	1427.4
67.5°	761.7	876.9	1101.0	1293.0	1363.4
70°	652.9	780.9	1030.6	1229.0	1299.4
72.5°	544.1	691.3	953.8	1158.6	1235.4
75°	435.3	608.1	883.3	1088.2	1171.4
77.5°	332.9	524.9	812.9	1024.2	1101.0
80°	236.8	454.5	748.9	960.2	1037.0
82.5°	153.6	384.1	684.9	896.1	973.0
85°	76.8	320.1	627.3	838.5	915.3
87.5°	25.6	268.8	569.7	780.9	857.7
90°	6.4	224.0	512.1	723.3	793.7
92.5°	0.0	185.6	467.3	672.1	742.5
95°	0.0	153.6	416.1	614.5	684.9
97.5°	0.0	128.0	377.7	569.7	640.1
100°	0.0	108.8	339.3	518.5	588.9
102.5°	0.0	89.6	300.8	480.1	544.1
105°	0.0	76.8	268.8	435.3	499.3
107.5°	0.0	64.0	243.2	396.9	454.5
110°	0.0	57.6	211.2	358.5	416.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	51.2	192.0	326.5	377.7
115°	0.0	44.8	166.4	294.4	339.3
117.5°	0.0	38.4	147.2	262.4	307.2
120°	0.0	38.4	134.4	236.8	275.2
122.5°	0.0	32.0	121.6	211.2	249.6
125°	0.0	32.0	102.4	185.6	224.0
127.5°	0.0	25.6	96.0	166.4	198.4
130°	0.0	25.6	83.2	147.2	172.8
132.5°	0.0	19.2	76.8	128.0	153.6
135°	0.0	19.2	64.0	115.2	134.4
137.5°	0.0	19.2	57.6	102.4	115.2
140°	0.0	19.2	51.2	89.6	102.4
142.5°	0.0	19.2	44.8	76.8	89.6
145°	0.0	19.2	38.4	64.0	76.8
147.5°	0.0	12.8	32.0	57.6	64.0
150°	0.0	12.8	25.6	44.8	51.2
152.5°	0.0	12.8	25.6	38.4	44.8
155°	0.0	12.8	19.2	32.0	38.4
157.5°	0.0	12.8	19.2	25.6	32.0
160°	0.0	6.4	12.8	19.2	25.6
162.5°	0.0	6.4	12.8	19.2	25.6
165°	0.0	6.4	12.8	12.8	19.2
167.5°	0.0	6.4	12.8	12.8	12.8
170°	0.0	6.4	6.4	12.8	6.4
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)