

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: P402678

Luminaire Tested: **8SL8040**

Issue Date: 06/24/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402678  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 06/24/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SL8040  
Description: 8FT LENSED LED STRIPLIGHT  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2004-752-4)  
Light Source: (160) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRICAL DRIVER

**Summary**

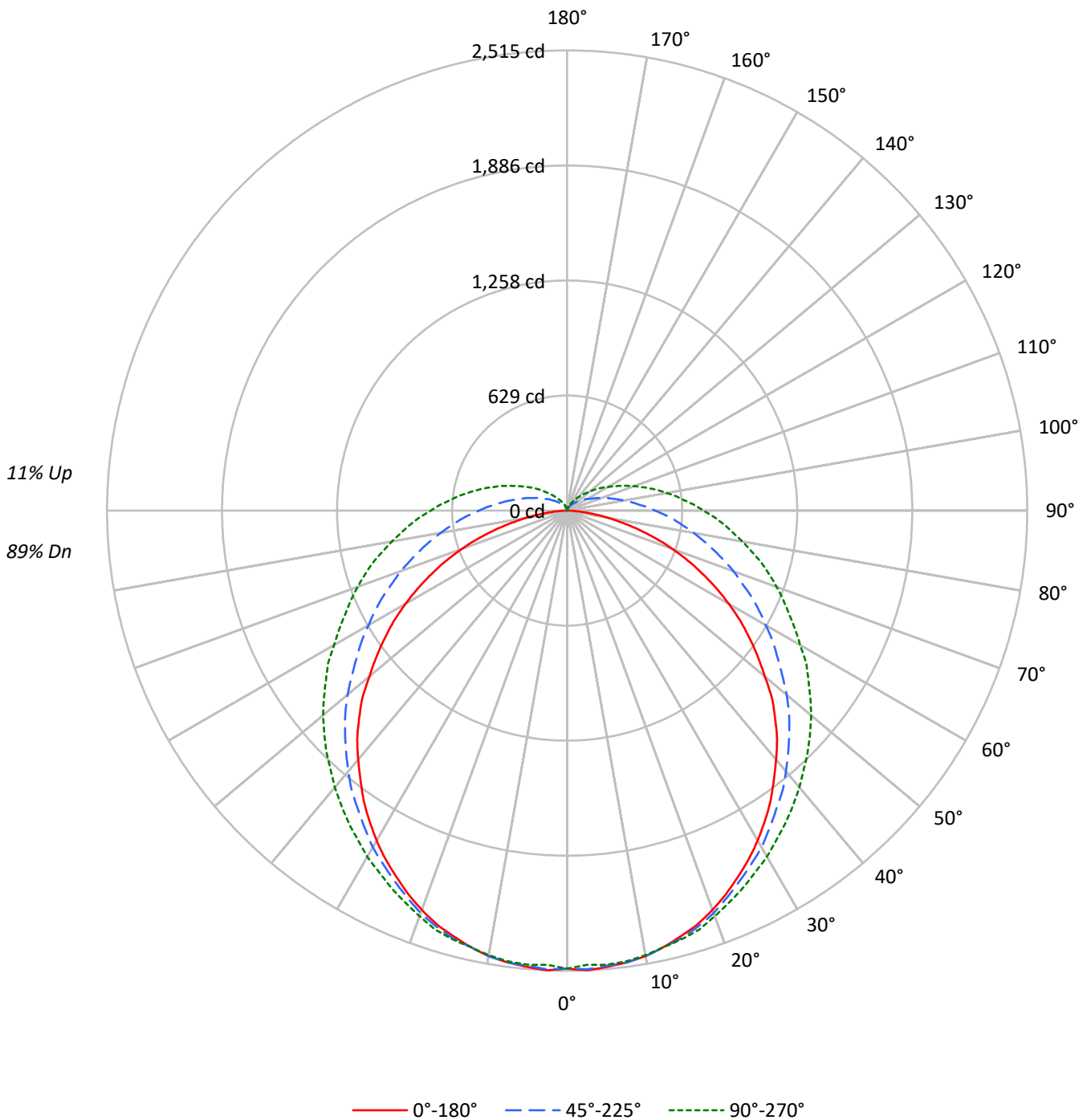
Lumens per Lamp: N/A  
Luminaire Lumens: 9300.2 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 75.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	20207	20207	20207
5°	20265	19616	19340
10°	20235	19059	18585
15°	20061	18435	17873
20°	19881	17776	17145
25°	19581	17024	16432
30°	19299	16391	15805
35°	18969	15678	15204
40°	18561	15051	14661
45°	18176	14402	14162
50°	17499	13758	13699
55°	16899	13045	13209
60°	16183	12464	12724
65°	15252	11957	12338
70°	14048	11453	12116
75°	12256	11008	11954
80°	9749	10716	11786
85°	5960	10630	11839



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.5	2.6
10°-20°	681.6	7.3
20°-30°	1031.6	11.1
30°-40°	1252.8	13.5
40°-50°	1331.7	14.3
50°-60°	1262.8	13.6
60°-70°	1083.9	11.7
70°-80°	839.9	9.0
80°-90°	588.1	6.3
90°-100°	395.3	4.3
100°-110°	257.8	2.8
110°-120°	159.1	1.7
120°-130°	92.6	1.0
130°-140°	49.3	0.5
140°-150°	23.9	0.3
150°-160°	9.3	0.1
160°-170°	2.9	0.0
170°-180°	0.1	0.0
0°-30°	1950.7	21.0
0°-40°	3203.5	34.4
0°-60°	5798.0	62.3
0°-90°	8309.9	89.4
90°-120°	812.2	8.7
90°-150°	978.0	10.5
90°-180°	990.0	10.6
0°-180°	9300.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2503	2503	2503	2503	2503	
5°	2503	2503	2497	2485	2491	238
15°	2407	2413	2419	2413	2425	680
25°	2209	2215	2233	2257	2275	1018
35°	1939	1945	1993	2053	2083	1211
45°	1609	1633	1717	1819	1861	1239
55°	1218	1266	1405	1561	1609	1089
65°	816	906	1110	1278	1338	808
75°	408	570	828	1020	1098	434
85°	72	300	588	786	858	92
90°	6	210	480	678	744	5
95°	0	144	390	576	642	0
105°	0	72	252	408	468	0
115°	0	42	156	276	318	0
125°	0	30	96	174	210	0
135°	0	18	60	108	126	0
145°	0	18	36	60	72	0
155°	0	12	18	30	36	0
165°	0	6	12	12	18	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°	2503.0	2503.0	2503.0	2503.0	2503.0
2.5°	2515.0	2515.0	2509.0	2491.0	2485.0
5°	2503.0	2503.0	2497.0	2485.0	2491.0
7.5°	2491.0	2491.0	2491.0	2479.0	2485.0
10°	2473.0	2473.0	2473.0	2455.0	2467.0
12.5°	2443.0	2449.0	2443.0	2437.0	2443.0
15°	2407.0	2413.0	2419.0	2413.0	2425.0
17.5°	2370.9	2370.9	2382.9	2389.0	2401.0
20°	2322.9	2328.9	2340.9	2346.9	2358.9
22.5°	2268.9	2268.9	2286.9	2298.9	2316.9
25°	2208.9	2214.9	2232.9	2256.9	2274.9
27.5°	2148.9	2154.9	2178.9	2208.9	2226.9
30°	2082.8	2088.8	2124.8	2160.9	2184.9
32.5°	2010.8	2016.8	2058.8	2106.8	2130.8
35°	1938.8	1944.8	1992.8	2052.8	2082.8
37.5°	1854.7	1872.7	1932.8	1998.8	2028.8
40°	1776.7	1794.7	1860.7	1938.8	1974.8
42.5°	1698.7	1716.7	1788.7	1884.7	1914.8
45°	1608.6	1632.6	1716.7	1818.7	1860.7
47.5°	1518.6	1548.6	1644.7	1752.7	1800.7
50°	1410.6	1446.6	1566.6	1686.7	1740.7
52.5°	1314.5	1356.5	1482.6	1626.6	1674.7
55°	1218.5	1266.5	1404.6	1560.6	1608.6
57.5°	1122.4	1176.5	1332.5	1482.6	1548.6
60°	1020.4	1086.4	1254.5	1410.6	1470.6
62.5°	918.4	996.4	1182.5	1344.5	1404.6
65°	816.3	906.4	1110.4	1278.5	1338.5
67.5°	714.3	822.3	1032.4	1212.5	1278.5
70°	612.2	732.3	966.4	1152.5	1218.5
72.5°	510.2	648.3	894.4	1086.4	1158.5
75°	408.2	570.2	828.3	1020.4	1098.4
77.5°	312.1	492.2	762.3	960.4	1032.4
80°	222.1	426.2	702.3	900.4	972.4
82.5°	144.1	360.1	642.3	840.3	912.4
85°	72.0	300.1	588.2	786.3	858.3
87.5°	24.0	252.1	534.2	732.3	804.3
90°	6.0	210.1	480.2	678.3	744.3
92.5°	0.0	174.1	438.2	630.3	696.3
95°	0.0	144.1	390.2	576.2	642.3
97.5°	0.0	120.0	354.1	534.2	600.2
100°	0.0	102.0	318.1	486.2	552.2
102.5°	0.0	84.0	282.1	450.2	510.2
105°	0.0	72.0	252.1	408.2	468.2
107.5°	0.0	60.0	228.1	372.1	426.2
110°	0.0	54.0	198.1	336.1	390.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	48.0	180.1	306.1	354.1
115°	0.0	42.0	156.1	276.1	318.1
117.5°	0.0	36.0	138.1	246.1	288.1
120°	0.0	36.0	126.1	222.1	258.1
122.5°	0.0	30.0	114.0	198.1	234.1
125°	0.0	30.0	96.0	174.1	210.1
127.5°	0.0	24.0	90.0	156.1	186.1
130°	0.0	24.0	78.0	138.1	162.1
132.5°	0.0	18.0	72.0	120.0	144.1
135°	0.0	18.0	60.0	108.0	126.1
137.5°	0.0	18.0	54.0	96.0	108.0
140°	0.0	18.0	48.0	84.0	96.0
142.5°	0.0	18.0	42.0	72.0	84.0
145°	0.0	18.0	36.0	60.0	72.0
147.5°	0.0	12.0	30.0	54.0	60.0
150°	0.0	12.0	24.0	42.0	48.0
152.5°	0.0	12.0	24.0	36.0	42.0
155°	0.0	12.0	18.0	30.0	36.0
157.5°	0.0	12.0	18.0	24.0	30.0
160°	0.0	6.0	12.0	18.0	24.0
162.5°	0.0	6.0	12.0	18.0	24.0
165°	0.0	6.0	12.0	12.0	18.0
167.5°	0.0	6.0	12.0	12.0	12.0
170°	0.0	6.0	6.0	12.0	6.0
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)