

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: P402669

Luminaire Tested: **4SLSTP4040DD-UNV**

Issue Date: 06/24/2020

Test Information

Test Method: LM-79-08
Report Number: P402669
Test Lab: INNOVATION CENTER-P2
Issue Date: 06/24/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SLSTP4040DD-UNV
Description: 4FT LENSED LED STRIPLIGHT
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2004-752-4)
Light Source: (80) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRICAL DRIVER

Summary

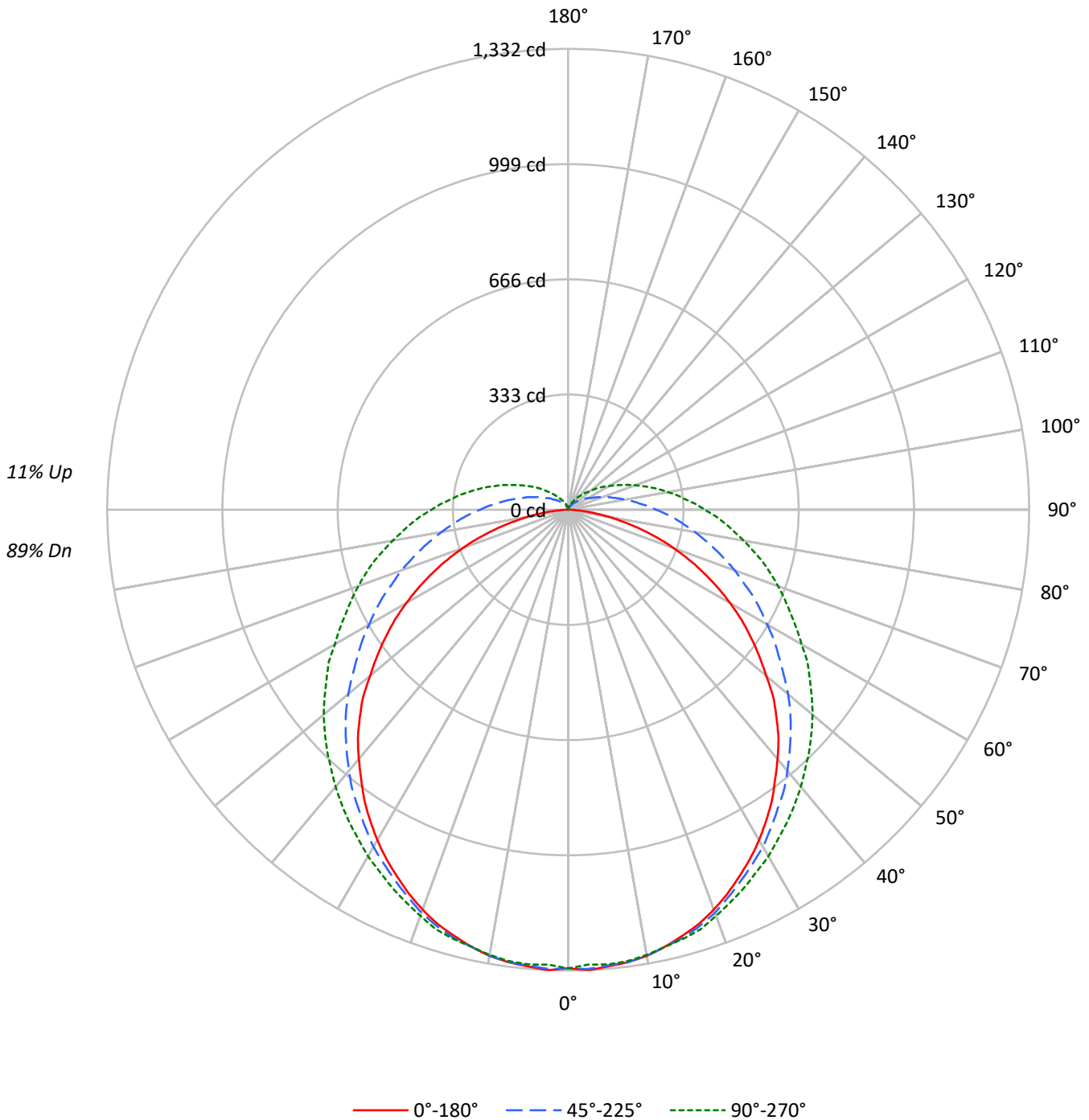
Lumens per Lamp: N/A
Luminaire Lumens: 4925.3 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 40.9
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°	21401	21401	21401
5°	21444	20764	20485
10°	21394	20163	19685
15°	21189	19489	18930
20°	20978	18783	18161
25°	20639	17979	17405
30°	20319	17301	16740
35°	19946	16538	16103
40°	19491	15866	15528
45°	19055	15171	15000
50°	18309	14484	14509
55°	17640	13721	13990
60°	16843	13099	13477
65°	15809	12553	13069
70°	14476	12009	12833
75°	12514	11526	12661
80°	9779	11196	12484
85°	5701	11077	12541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	2.6
10°-20°	361.0	7.3
20°-30°	546.3	11.1
30°-40°	663.5	13.5
40°-50°	705.2	14.3
50°-60°	668.7	13.6
60°-70°	574.0	11.7
70°-80°	444.8	9.0
80°-90°	311.4	6.3
90°-100°	209.3	4.3
100°-110°	136.6	2.8
110°-120°	84.2	1.7
120°-130°	49.1	1.0
130°-140°	26.1	0.5
140°-150°	12.6	0.3
150°-160°	4.9	0.1
160°-170°	1.6	0.0
170°-180°	0.1	0.0
0°-30°	1033.0	21.0
0°-40°	1696.5	34.4
0°-60°	3070.5	62.3
0°-90°	4400.8	89.4
90°-120°	430.1	8.7
90°-150°	518.0	10.5
90°-180°	525.0	10.7
0°-180°	4925.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1326	1326	1322	1316	1319	126
15°	1275	1278	1281	1278	1284	360
25°	1170	1173	1182	1195	1205	539
35°	1027	1030	1055	1087	1103	641
45°	852	865	909	963	985	656
55°	645	671	744	826	852	577
65°	432	480	588	677	709	428
75°	216	302	439	540	582	230
85°	38	159	312	416	455	49
90°	3	111	254	359	394	3
95°	0	76	207	305	340	0
105°	0	38	134	216	248	0
115°	0	22	83	146	168	0
125°	0	16	51	92	111	0
135°	0	10	32	57	67	0
145°	0	10	19	32	38	0
155°	0	6	10	16	19	0
165°	0	3	6	6	10	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°	1325.5	1325.5	1325.5	1325.5	1325.5
2.5°	1331.9	1331.9	1328.7	1319.2	1316.0
5°	1325.5	1325.5	1322.4	1316.0	1319.2
7.5°	1319.2	1319.2	1319.2	1312.8	1316.0
10°	1309.7	1309.7	1309.7	1300.1	1306.5
12.5°	1293.8	1296.9	1293.8	1290.6	1293.8
15°	1274.7	1277.9	1281.0	1277.9	1284.2
17.5°	1255.6	1255.6	1262.0	1265.2	1271.5
20°	1230.2	1233.4	1239.7	1242.9	1249.3
22.5°	1201.6	1201.6	1211.1	1217.5	1227.0
25°	1169.8	1173.0	1182.5	1195.2	1204.8
27.5°	1138.0	1141.2	1153.9	1169.8	1179.3
30°	1103.0	1106.2	1125.3	1144.4	1157.1
32.5°	1064.9	1068.1	1090.3	1115.7	1128.5
35°	1026.7	1029.9	1055.4	1087.1	1103.0
37.5°	982.2	991.8	1023.6	1058.5	1074.4
40°	940.9	950.5	985.4	1026.7	1045.8
42.5°	899.6	909.1	947.3	998.1	1014.0
45°	851.9	864.6	909.1	963.2	985.4
47.5°	804.2	820.1	871.0	928.2	953.6
50°	747.0	766.1	829.7	893.2	921.8
52.5°	696.2	718.4	785.2	861.4	886.9
55°	645.3	670.7	743.8	826.5	851.9
57.5°	594.4	623.0	705.7	785.2	820.1
60°	540.4	575.4	664.4	747.0	778.8
62.5°	486.4	527.7	626.2	712.0	743.8
65°	432.3	480.0	588.1	677.1	708.9
67.5°	378.3	435.5	546.7	642.1	677.1
70°	324.2	387.8	511.8	610.3	645.3
72.5°	270.2	343.3	473.6	575.4	613.5
75°	216.2	302.0	438.7	540.4	581.7
77.5°	165.3	260.7	403.7	508.6	546.7
80°	117.6	225.7	371.9	476.8	515.0
82.5°	76.3	190.7	340.1	445.0	483.2
85°	38.1	158.9	311.5	416.4	454.6
87.5°	12.7	133.5	282.9	387.8	426.0
90°	3.2	111.3	254.3	359.2	394.2
92.5°	0.0	92.2	232.1	333.8	368.7
95°	0.0	76.3	206.6	305.2	340.1
97.5°	0.0	63.6	187.5	282.9	317.9
100°	0.0	54.0	168.5	257.5	292.4
102.5°	0.0	44.5	149.4	238.4	270.2
105°	0.0	38.1	133.5	216.2	247.9
107.5°	0.0	31.8	120.8	197.1	225.7
110°	0.0	28.6	104.9	178.0	206.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	25.4	95.4	162.1	187.5
115°	0.0	22.3	82.6	146.2	168.5
117.5°	0.0	19.1	73.1	130.3	152.6
120°	0.0	19.1	66.8	117.6	136.7
122.5°	0.0	15.9	60.4	104.9	124.0
125°	0.0	15.9	50.9	92.2	111.3
127.5°	0.0	12.7	47.7	82.6	98.5
130°	0.0	12.7	41.3	73.1	85.8
132.5°	0.0	9.5	38.1	63.6	76.3
135°	0.0	9.5	31.8	57.2	66.8
137.5°	0.0	9.5	28.6	50.9	57.2
140°	0.0	9.5	25.4	44.5	50.9
142.5°	0.0	9.5	22.3	38.1	44.5
145°	0.0	9.5	19.1	31.8	38.1
147.5°	0.0	6.4	15.9	28.6	31.8
150°	0.0	6.4	12.7	22.3	25.4
152.5°	0.0	6.4	12.7	19.1	22.3
155°	0.0	6.4	9.5	15.9	19.1
157.5°	0.0	6.4	9.5	12.7	15.9
160°	0.0	3.2	6.4	9.5	12.7
162.5°	0.0	3.2	6.4	9.5	12.7
165°	0.0	3.2	6.4	6.4	9.5
167.5°	0.0	3.2	6.4	6.4	6.4
170°	0.0	3.2	3.2	6.4	3.2
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)