

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: P402667

Luminaire Tested: **4SLSTP2040DD-UNV**

Issue Date: 06/24/2020

Test Information

Test Method: LM-79-08
Report Number: P402667
Test Lab: INNOVATION CENTER-P2
Issue Date: 06/24/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SLSTP2040DD-UNV
Description: 4FT LENSED LED STRIPLIGHT
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2004-752-4)
Light Source: (50) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRICAL DRIVER

Summary

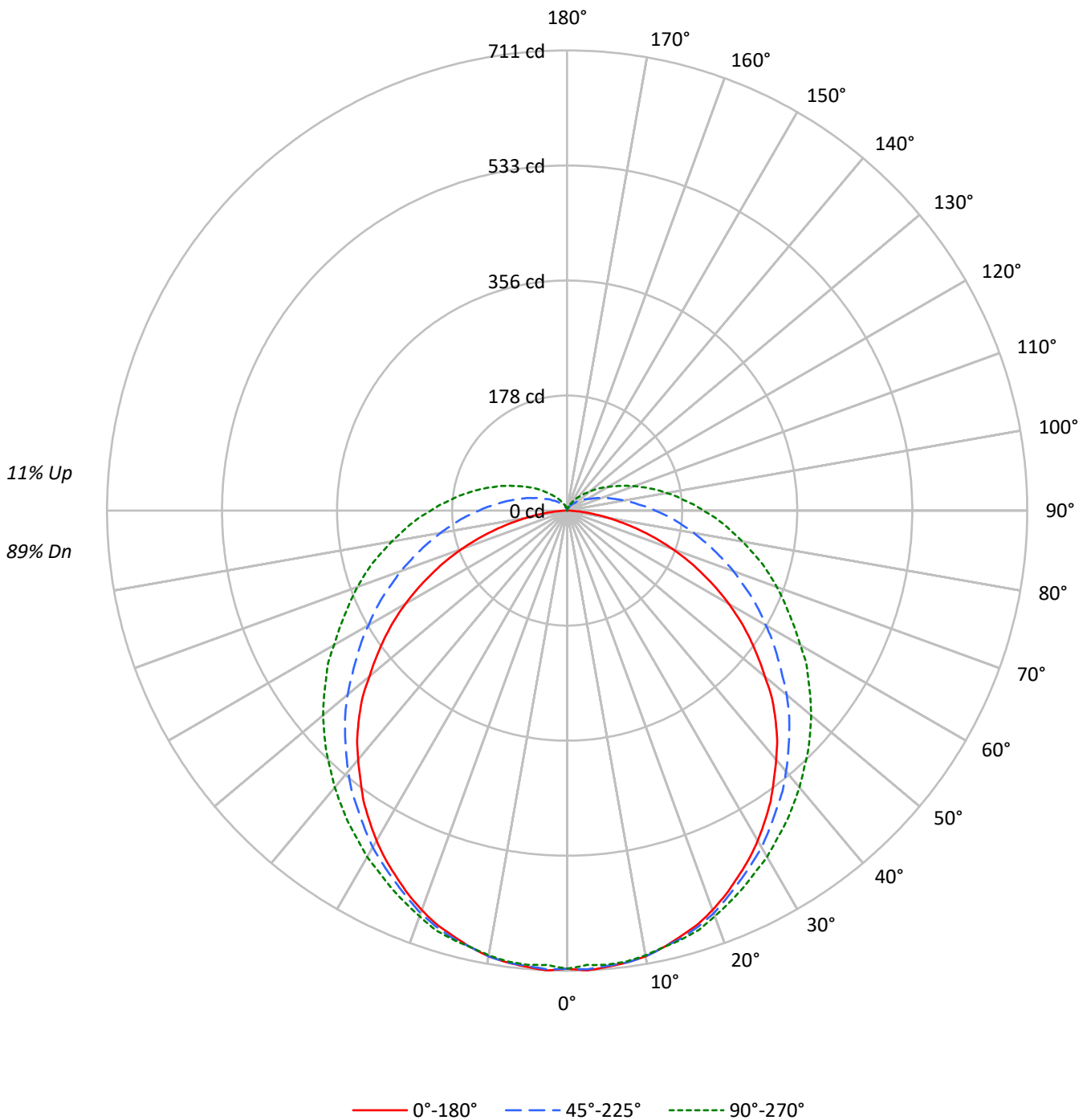
Lumens per Lamp: N/A
Luminaire Lumens: 2629.9 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 21.9
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	25	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11428	11428	11428
5°	11451	11087	10938
10°	11423	10766	10510
15°	11313	10406	10108
20°	11202	10030	9697
25°	11020	9600	9294
30°	10851	9239	8938
35°	10650	8830	8599
40°	10407	8472	8291
45°	10175	8100	8010
50°	9777	7733	7747
55°	9420	7327	7471
60°	8995	6993	7197
65°	8440	6703	6978
70°	7729	6413	6853
75°	6680	6153	6761
80°	5222	5979	6666
85°	3052	5914	6696



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	2.6
10°-20°	192.7	7.3
20°-30°	291.7	11.1
30°-40°	354.3	13.5
40°-50°	376.6	14.3
50°-60°	357.1	13.6
60°-70°	306.5	11.7
70°-80°	237.5	9.0
80°-90°	166.3	6.3
90°-100°	111.8	4.2
100°-110°	72.9	2.8
110°-120°	45.0	1.7
120°-130°	26.2	1.0
130°-140°	14.0	0.5
140°-150°	6.8	0.3
150°-160°	2.6	0.1
160°-170°	0.8	0.0
170°-180°	0.0	0.0
0°-30°	551.6	21.0
0°-40°	905.9	34.4
0°-60°	1639.5	62.3
0°-90°	2349.9	89.3
90°-120°	229.7	8.7
90°-150°	276.6	10.5
90°-180°	280.0	10.6
0°-180°	2629.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	708	708	706	703	704	67
15°	681	682	684	682	686	192
25°	625	626	631	638	643	288
35°	548	550	564	580	589	342
45°	455	462	485	514	526	350
55°	345	358	397	441	455	308
65°	231	256	314	362	378	228
75°	115	161	234	289	311	123
85°	20	85	166	222	243	26
90°	2	59	136	192	210	1
95°	0	41	110	163	182	0
105°	0	20	71	115	132	0
115°	0	12	44	78	90	0
125°	0	8	27	49	59	0
135°	0	5	17	31	36	0
145°	0	5	10	17	20	0
155°	0	3	5	8	10	0
165°	0	2	3	3	5	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°	707.8	707.8	707.8	707.8	707.8
2.5°	711.2	711.2	709.5	704.4	702.7
5°	707.8	707.8	706.1	702.7	704.4
7.5°	704.4	704.4	704.4	701.0	702.7
10°	699.3	699.3	699.3	694.2	697.6
12.5°	690.8	692.5	690.8	689.1	690.8
15°	680.6	682.3	684.0	682.3	685.7
17.5°	670.5	670.5	673.8	675.5	678.9
20°	656.9	658.6	662.0	663.7	667.1
22.5°	641.6	641.6	646.7	650.1	655.2
25°	624.6	626.3	631.4	638.2	643.3
27.5°	607.7	609.4	616.1	624.6	629.7
30°	589.0	590.7	600.9	611.0	617.8
32.5°	568.6	570.3	582.2	595.8	602.6
35°	548.2	549.9	563.5	580.5	589.0
37.5°	524.5	529.6	546.5	565.2	573.7
40°	502.4	507.5	526.2	548.2	558.4
42.5°	480.4	485.4	505.8	533.0	541.5
45°	454.9	461.7	485.4	514.3	526.2
47.5°	429.4	437.9	465.1	495.6	509.2
50°	398.9	409.1	443.0	477.0	492.2
52.5°	371.7	383.6	419.2	460.0	473.6
55°	344.6	358.1	397.2	441.3	454.9
57.5°	317.4	332.7	376.8	419.2	437.9
60°	288.6	307.2	354.7	398.9	415.9
62.5°	259.7	281.8	334.4	380.2	397.2
65°	230.8	256.3	314.0	361.5	378.5
67.5°	202.0	232.5	291.9	342.9	361.5
70°	173.1	207.1	273.3	325.9	344.6
72.5°	144.3	183.3	252.9	307.2	327.6
75°	115.4	161.2	234.2	288.6	310.6
77.5°	88.3	139.2	215.6	271.6	291.9
80°	62.8	120.5	198.6	254.6	275.0
82.5°	40.7	101.8	181.6	237.6	258.0
85°	20.4	84.9	166.3	222.4	242.7
87.5°	6.8	71.3	151.1	207.1	227.4
90°	1.7	59.4	135.8	191.8	210.5
92.5°	0.0	49.2	123.9	178.2	196.9
95°	0.0	40.7	110.3	162.9	181.6
97.5°	0.0	33.9	100.1	151.1	169.7
100°	0.0	28.9	90.0	137.5	156.2
102.5°	0.0	23.8	79.8	127.3	144.3
105°	0.0	20.4	71.3	115.4	132.4
107.5°	0.0	17.0	64.5	105.2	120.5
110°	0.0	15.3	56.0	95.1	110.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	13.6	50.9	86.6	100.1
115°	0.0	11.9	44.1	78.1	90.0
117.5°	0.0	10.2	39.0	69.6	81.5
120°	0.0	10.2	35.6	62.8	73.0
122.5°	0.0	8.5	32.2	56.0	66.2
125°	0.0	8.5	27.2	49.2	59.4
127.5°	0.0	6.8	25.5	44.1	52.6
130°	0.0	6.8	22.1	39.0	45.8
132.5°	0.0	5.1	20.4	33.9	40.7
135°	0.0	5.1	17.0	30.6	35.6
137.5°	0.0	5.1	15.3	27.2	30.6
140°	0.0	5.1	13.6	23.8	27.2
142.5°	0.0	5.1	11.9	20.4	23.8
145°	0.0	5.1	10.2	17.0	20.4
147.5°	0.0	3.4	8.5	15.3	17.0
150°	0.0	3.4	6.8	11.9	13.6
152.5°	0.0	3.4	6.8	10.2	11.9
155°	0.0	3.4	5.1	8.5	10.2
157.5°	0.0	3.4	5.1	6.8	8.5
160°	0.0	1.7	3.4	5.1	6.8
162.5°	0.0	1.7	3.4	5.1	6.8
165°	0.0	1.7	3.4	3.4	5.1
167.5°	0.0	1.7	3.4	3.4	3.4
170°	0.0	1.7	1.7	3.4	1.7
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)