

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: P402663

Luminaire Tested: **4SLSTP2040DD-120V**

Issue Date: 06/24/2020

Test Information

Test Method: LM-79-08
Report Number: P402663
Test Lab: INNOVATION CENTER-P2
Issue Date: 06/24/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SLSTP2040DD-120V
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

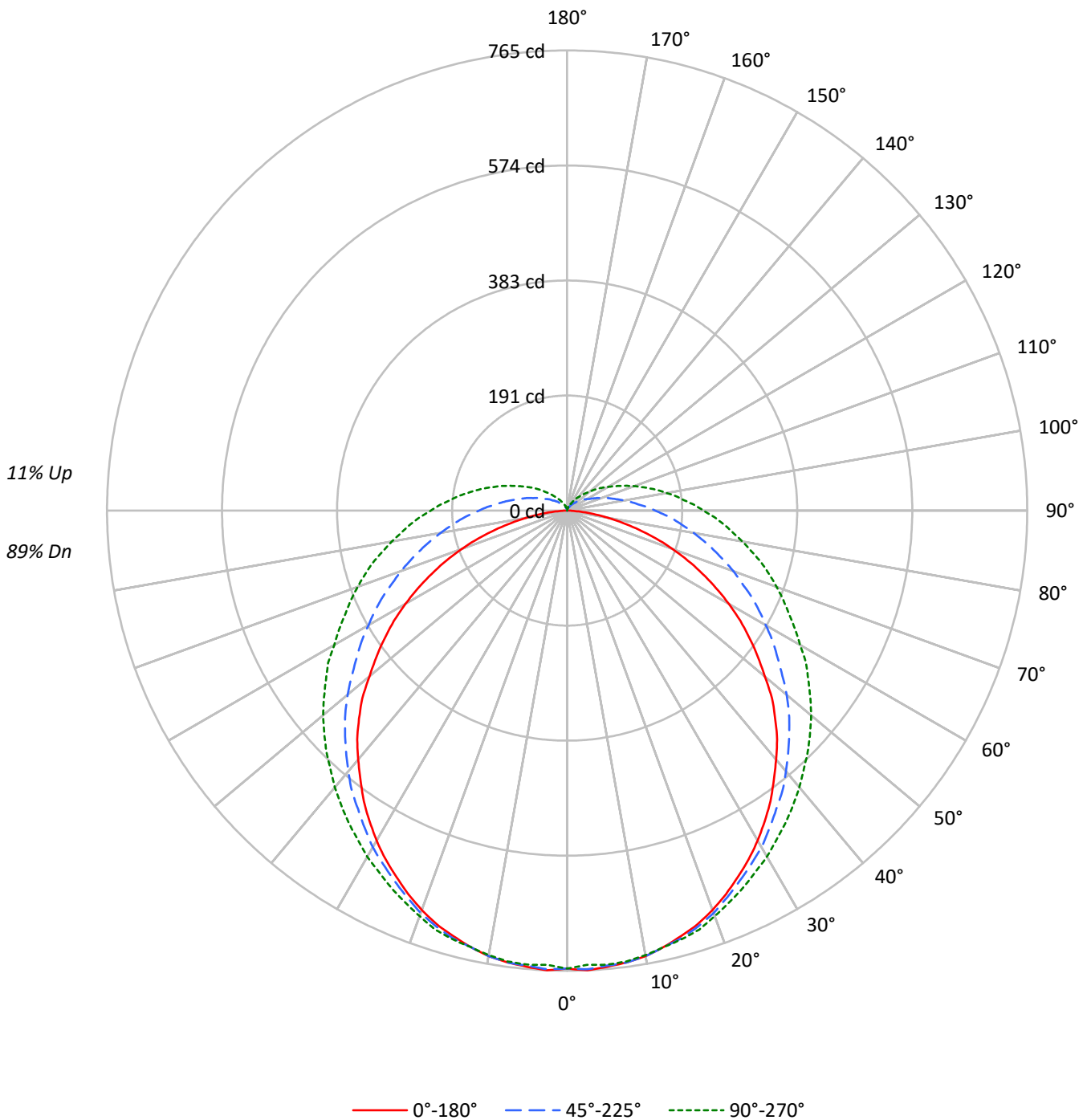
Lumens per Lamp: N/A
Luminaire Lumens: 2828.9 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 23.8
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	25	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12292	12292	12292
5°	12316	11925	11766
10°	12287	11580	11306
15°	12169	11195	10873
20°	12049	10788	10430
25°	11855	10327	9997
30°	11670	9937	9615
35°	11456	9497	9249
40°	11194	9113	8919
45°	10945	8714	8616
50°	10515	8318	8334
55°	10131	7881	8036
60°	9674	7523	7741
65°	9080	7211	7505
70°	8314	6896	7370
75°	7189	6621	7272
80°	5621	6430	7171
85°	3277	6362	7203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	2.6
10°-20°	207.3	7.3
20°-30°	313.8	11.1
30°-40°	381.1	13.5
40°-50°	405.1	14.3
50°-60°	384.1	13.6
60°-70°	329.7	11.7
70°-80°	255.5	9.0
80°-90°	178.9	6.3
90°-100°	120.2	4.3
100°-110°	78.4	2.8
110°-120°	48.4	1.7
120°-130°	28.2	1.0
130°-140°	15.0	0.5
140°-150°	7.3	0.3
150°-160°	2.8	0.1
160°-170°	0.9	0.0
170°-180°	0.0	0.0
0°-30°	593.3	21.0
0°-40°	974.4	34.4
0°-60°	1763.6	62.3
0°-90°	2527.6	89.3
90°-120°	247.1	8.7
90°-150°	297.5	10.5
90°-180°	301.0	10.6
0°-180°	2828.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	761	761	761	761	761	
5°	761	761	760	756	758	72
15°	732	734	736	734	738	207
25°	672	674	679	686	692	310
35°	590	592	606	624	634	368
45°	489	497	522	553	566	377
55°	371	385	427	475	489	331
65°	248	276	338	389	407	246
75°	124	173	252	310	334	132
85°	22	91	179	239	261	28
90°	2	64	146	206	226	1
95°	0	44	119	175	195	0
105°	0	22	77	124	142	0
115°	0	13	48	84	97	0
125°	0	9	29	53	64	0
135°	0	6	18	33	38	0
145°	0	6	11	18	22	0
155°	0	4	6	9	11	0
165°	0	2	4	4	6	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°	761.3	761.3	761.3	761.3	761.3
2.5°	765.0	765.0	763.2	757.7	755.9
5°	761.3	761.3	759.5	755.9	757.7
7.5°	757.7	757.7	757.7	754.0	755.9
10°	752.2	752.2	752.2	746.7	750.4
12.5°	743.1	744.9	743.1	741.3	743.1
15°	732.1	733.9	735.8	733.9	737.6
17.5°	721.2	721.2	724.8	726.6	730.3
20°	706.6	708.4	712.0	713.9	717.5
22.5°	690.1	690.1	695.6	699.3	704.7
25°	671.9	673.7	679.2	686.5	692.0
27.5°	653.6	655.4	662.7	671.9	677.4
30°	633.5	635.4	646.3	657.3	664.6
32.5°	611.6	613.4	626.2	640.8	648.1
35°	589.7	591.5	606.1	624.4	633.5
37.5°	564.2	569.6	587.9	608.0	617.1
40°	540.4	545.9	566.0	589.7	600.7
42.5°	516.7	522.2	544.1	573.3	582.4
45°	489.3	496.6	522.2	553.2	566.0
47.5°	461.9	471.0	500.3	533.1	547.7
50°	429.0	440.0	476.5	513.0	529.5
52.5°	399.8	412.6	451.0	494.8	509.4
55°	370.6	385.2	427.2	474.7	489.3
57.5°	341.4	357.8	405.3	451.0	471.0
60°	310.4	330.5	381.6	429.0	447.3
62.5°	279.3	303.1	359.7	409.0	427.2
65°	248.3	275.7	337.8	388.9	407.1
67.5°	217.3	250.1	314.0	368.8	388.9
70°	186.2	222.7	293.9	350.5	370.6
72.5°	155.2	197.2	272.0	330.5	352.4
75°	124.2	173.4	252.0	310.4	334.1
77.5°	94.9	149.7	231.9	292.1	314.0
80°	67.6	129.6	213.6	273.9	295.8
82.5°	43.8	109.5	195.4	255.6	277.5
85°	21.9	91.3	178.9	239.2	261.1
87.5°	7.3	76.7	162.5	222.7	244.6
90°	1.8	63.9	146.1	206.3	226.4
92.5°	0.0	52.9	133.3	191.7	211.8
95°	0.0	43.8	118.7	175.3	195.4
97.5°	0.0	36.5	107.7	162.5	182.6
100°	0.0	31.0	96.8	147.9	168.0
102.5°	0.0	25.6	85.8	136.9	155.2
105°	0.0	21.9	76.7	124.2	142.4
107.5°	0.0	18.3	69.4	113.2	129.6
110°	0.0	16.4	60.2	102.2	118.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	14.6	54.8	93.1	107.7
115°	0.0	12.8	47.5	84.0	96.8
117.5°	0.0	11.0	42.0	74.9	87.6
120°	0.0	11.0	38.3	67.6	78.5
122.5°	0.0	9.1	34.7	60.2	71.2
125°	0.0	9.1	29.2	52.9	63.9
127.5°	0.0	7.3	27.4	47.5	56.6
130°	0.0	7.3	23.7	42.0	49.3
132.5°	0.0	5.5	21.9	36.5	43.8
135°	0.0	5.5	18.3	32.9	38.3
137.5°	0.0	5.5	16.4	29.2	32.9
140°	0.0	5.5	14.6	25.6	29.2
142.5°	0.0	5.5	12.8	21.9	25.6
145°	0.0	5.5	11.0	18.3	21.9
147.5°	0.0	3.7	9.1	16.4	18.3
150°	0.0	3.7	7.3	12.8	14.6
152.5°	0.0	3.7	7.3	11.0	12.8
155°	0.0	3.7	5.5	9.1	11.0
157.5°	0.0	3.7	5.5	7.3	9.1
160°	0.0	1.8	3.7	5.5	7.3
162.5°	0.0	1.8	3.7	5.5	7.3
165°	0.0	1.8	3.7	3.7	5.5
167.5°	0.0	1.8	3.7	3.7	3.7
170°	0.0	1.8	1.8	3.7	1.8
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)