

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: P236204

Luminaire Tested: **2SWLED-20SL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SWLED-20SL-LW-UNV-L850-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
2FT FIXTURE WITH 1 ROW LED, WIDE LENS
Light Source: (56) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

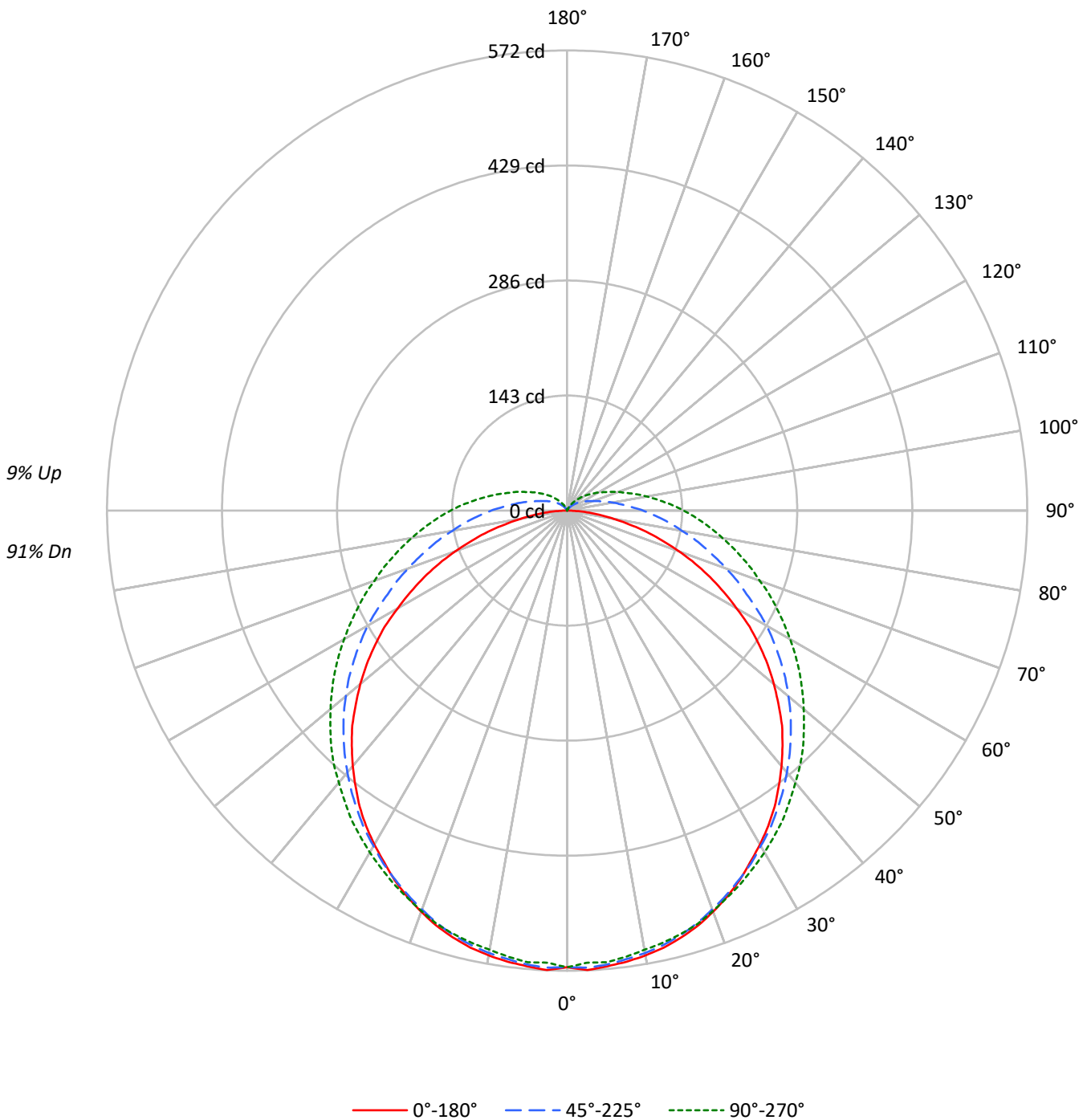
Lumens per Lamp: N/A
Luminaire Lumens: 2039.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 2' x H: 0.15')
CIE Type: Direct

Input Watts (W): 20.6
Input Voltage (V): 120
Input Current (Ain): 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	106	106	106	100	100	100	94	94	94	91
1	105	99	94	89	101	96	91	87	90	86	83	85	82	79	80	77	75	72
2	94	85	78	71	91	83	76	70	78	72	67	73	68	64	69	65	61	59
3	86	74	65	58	82	72	64	57	68	61	55	64	58	53	60	55	51	49
4	78	65	56	49	75	64	55	48	60	52	47	56	50	45	53	48	44	41
5	72	58	49	42	69	57	48	41	53	46	40	51	44	39	48	42	38	35
6	66	52	43	36	64	51	42	36	48	41	35	46	39	34	43	37	33	31
7	61	47	38	32	59	46	38	32	44	36	31	42	35	30	39	34	29	27
8	57	43	34	28	55	42	34	28	40	33	27	38	31	27	36	30	26	24
9	53	39	31	25	51	39	31	25	37	30	25	35	29	24	33	28	23	21
10	50	36	28	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8146	8146	8146
5°	8140	7936	7851
10°	8079	7695	7560
15°	8002	7461	7334
20°	7896	7202	7086
25°	7766	6954	6852
30°	7622	6712	6640
35°	7495	6484	6446
40°	7321	6248	6235
45°	7145	6015	6060
50°	6894	5775	5857
55°	6606	5517	5680
60°	6201	5251	5492
65°	5756	4919	5322
70°	5167	4654	5165
75°	4429	4411	5085
80°	3421	4193	5054
85°	2209	4106	5123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	2.6
10°-20°	154.2	7.6
20°-30°	234.0	11.5
30°-40°	285.6	14.0
40°-50°	304.4	14.9
50°-60°	288.7	14.2
60°-70°	242.7	11.9
70°-80°	180.8	8.9
80°-90°	119.8	5.9
90°-100°	74.3	3.6
100°-110°	45.7	2.2
110°-120°	27.5	1.3
120°-130°	15.9	0.8
130°-140°	7.9	0.4
140°-150°	3.1	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	442.0	21.7
0°-40°	727.7	35.7
0°-60°	1320.7	64.8
0°-90°	1864.0	91.4
90°-120°	147.5	7.2
90°-150°	174.3	8.6
90°-180°	175.0	8.6
0°-180°	2039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	569	569	567	564	564	54
15°	549	548	546	545	545	155
25°	507	506	506	509	511	234
35°	450	448	455	463	468	281
45°	378	381	393	408	415	291
55°	292	301	323	345	353	260
65°	196	214	246	277	287	194
75°	102	131	176	212	225	108
85°	25	65	118	156	169	27
90°	1	42	94	131	145	2
95°	0	27	73	108	121	0
105°	0	13	44	72	82	0
115°	0	7	28	47	54	0
125°	0	3	17	31	36	0
135°	0	1	9	18	22	0
145°	0	0	4	9	11	0
155°	0	0	0	2	3	0
165°	0	0	0	0	0	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°	567.6	567.6	567.6	567.6	567.6
2.5°	571.7	570.7	568.6	564.5	562.5
5°	568.6	568.6	566.6	563.5	563.5
7.5°	565.6	564.5	562.5	560.4	559.4
10°	561.5	561.5	558.4	555.3	554.3
12.5°	556.3	555.3	553.2	550.2	550.2
15°	549.1	548.1	546.1	545.0	545.0
17.5°	540.9	539.9	537.8	537.8	538.9
20°	530.7	529.6	527.6	528.6	529.6
22.5°	519.4	518.3	517.3	518.3	520.4
25°	507.1	506.0	506.0	509.1	511.2
27.5°	492.7	492.7	494.7	498.8	500.9
30°	479.3	478.3	481.4	487.6	490.6
32.5°	465.0	463.9	469.1	476.3	479.3
35°	449.6	448.5	454.7	462.9	468.1
37.5°	432.1	433.2	440.3	450.6	454.7
40°	414.7	415.7	424.9	437.3	441.4
42.5°	396.2	398.3	409.5	422.9	429.0
45°	377.7	380.8	393.1	408.5	414.7
47.5°	356.2	361.3	376.7	393.1	399.3
50°	335.6	341.8	359.3	377.7	383.9
52.5°	314.1	321.3	341.8	361.3	368.5
55°	291.5	300.7	323.3	344.9	353.1
57.5°	268.9	280.2	304.8	328.5	336.7
60°	243.3	256.6	286.4	311.0	320.2
62.5°	219.7	235.1	265.8	294.6	303.8
65°	196.0	214.5	246.3	277.1	287.4
67.5°	172.4	193.0	228.9	258.7	272.0
70°	147.8	171.4	210.4	242.2	254.6
72.5°	124.2	150.9	193.0	226.8	240.2
75°	101.6	131.4	176.5	212.5	224.8
77.5°	79.0	111.9	161.1	197.1	210.4
80°	58.5	94.4	144.7	182.7	196.0
82.5°	40.0	79.0	131.4	169.4	182.7
85°	24.6	64.7	118.0	156.0	169.4
87.5°	11.3	52.3	105.7	143.7	157.0
90°	1.0	42.1	94.4	131.4	144.7
92.5°	0.0	33.9	83.1	119.1	133.4
95°	0.0	26.7	72.9	107.8	121.1
97.5°	0.0	21.6	64.7	98.5	110.9
100°	0.0	18.5	57.5	88.3	100.6
102.5°	0.0	15.4	50.3	80.1	91.4
105°	0.0	13.3	44.1	71.9	82.1
107.5°	0.0	11.3	39.0	64.7	73.9
110°	0.0	10.3	34.9	58.5	67.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	8.2	30.8	52.3	60.6
115°	0.0	7.2	27.7	47.2	54.4
117.5°	0.0	6.2	24.6	42.1	49.3
120°	0.0	5.1	22.6	39.0	45.2
122.5°	0.0	4.1	19.5	34.9	40.0
125°	0.0	3.1	17.4	30.8	35.9
127.5°	0.0	3.1	15.4	27.7	31.8
130°	0.0	2.1	13.3	24.6	28.7
132.5°	0.0	2.1	11.3	21.6	25.7
135°	0.0	1.0	9.2	18.5	21.6
137.5°	0.0	1.0	8.2	15.4	18.5
140°	0.0	1.0	6.2	13.3	16.4
142.5°	0.0	0.0	5.1	11.3	13.3
145°	0.0	0.0	4.1	9.2	11.3
147.5°	0.0	0.0	3.1	7.2	9.2
150°	0.0	0.0	2.1	5.1	7.2
152.5°	1.0	0.0	1.0	4.1	5.1
155°	0.0	0.0	0.0	2.1	3.1
157.5°	0.0	0.0	0.0	1.0	2.1
160°	0.0	0.0	0.0	0.0	1.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
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)