

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: P236203

Luminaire Tested: **2SWLED-20SL-LW-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236203
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-L840-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
2FT FIXTURE WITH 1 ROW LED, WIDE LENS
Light Source: (56) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

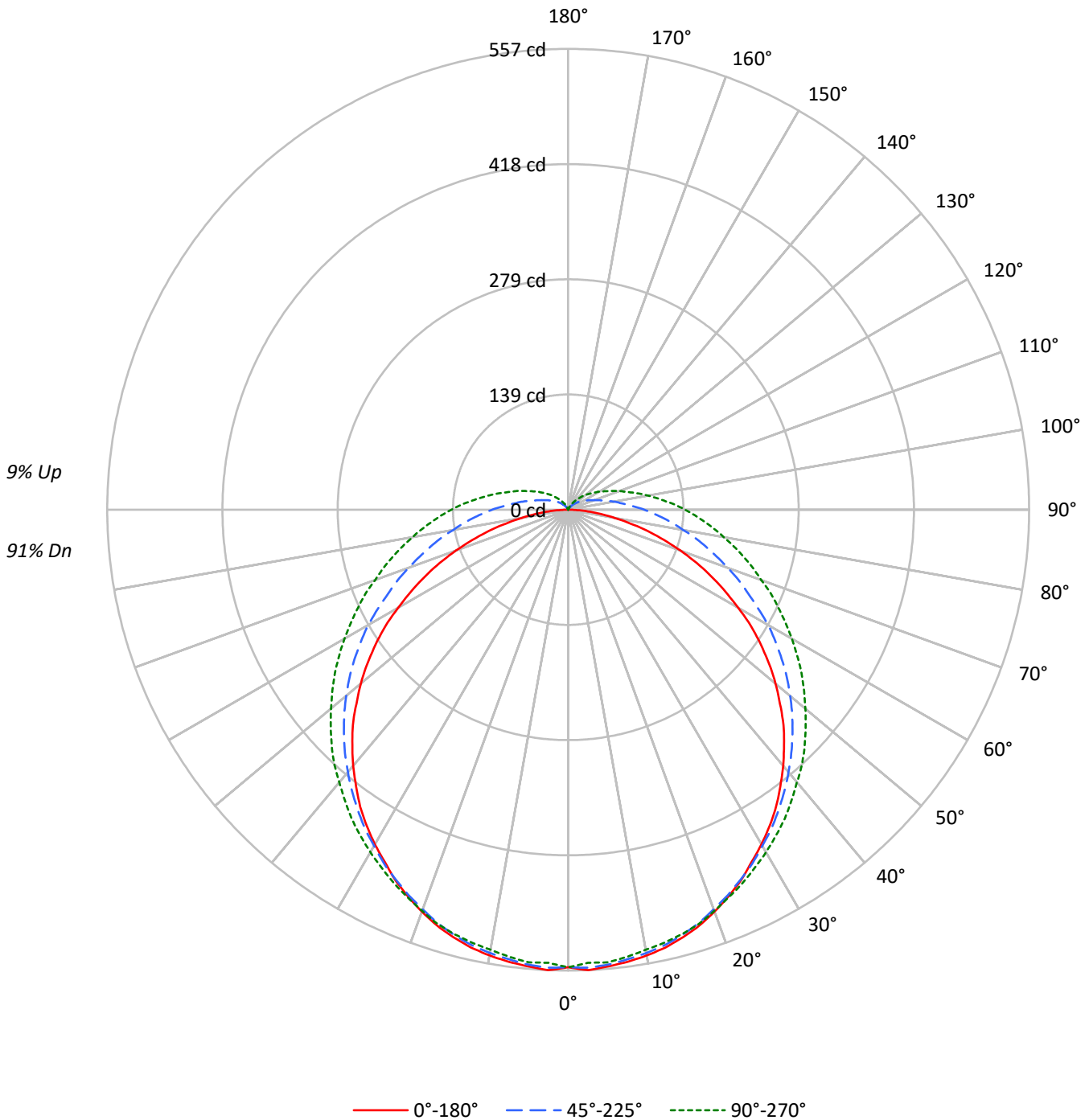
Lumens per Lamp: N/A
Luminaire Lumens: 1986.9 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 2' x H: 0.15')
CIE Type: Direct

Input Watts (W): 20.6
Input Voltage (V): 120
Input Current (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	50	30	10	0	
RCR																						
0	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	94	94	94	91	
1	105	99	94	89	101	96	91	87	90	86	83	85	82	79	80	77	75	75	75	75	72	
2	94	85	78	71	91	83	76	70	78	72	67	73	68	64	69	65	61	61	61	61	59	
3	86	74	65	58	82	72	64	57	68	61	55	64	58	53	60	55	51	51	51	51	49	
4	78	65	56	49	75	64	55	48	60	52	47	56	50	45	53	48	44	44	44	44	41	
5	72	58	49	42	69	57	48	41	53	46	40	51	44	39	48	42	38	38	38	38	35	
6	66	52	43	36	64	51	42	36	48	41	35	46	39	34	43	37	33	33	33	33	31	
7	61	47	38	32	59	46	38	32	44	36	31	42	35	30	39	34	29	29	29	29	27	
8	57	43	34	28	55	42	34	28	40	33	27	38	31	27	36	30	26	26	26	26	24	
9	53	39	31	25	51	39	31	25	37	30	25	35	29	24	33	28	23	23	23	23	21	
10	50	36	28	23	48	36	28	23	34	27	22	32	26	22	31	25	21	21	21	21	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7938	7938	7938
5°	7932	7733	7650
10°	7872	7498	7366
15°	7798	7270	7146
20°	7693	7018	6905
25°	7567	6777	6677
30°	7428	6541	6470
35°	7303	6319	6281
40°	7134	6090	6075
45°	6963	5862	5905
50°	6719	5627	5708
55°	6438	5377	5536
60°	6043	5117	5353
65°	5609	4795	5187
70°	5034	4536	5033
75°	4315	4299	4956
80°	3333	4086	4925
85°	2156	4002	4990



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.4	2.6
10°-20°	150.3	7.6
20°-30°	228.1	11.5
30°-40°	278.4	14.0
40°-50°	296.6	14.9
50°-60°	281.4	14.2
60°-70°	236.5	11.9
70°-80°	176.2	8.9
80°-90°	116.7	5.9
90°-100°	72.4	3.6
100°-110°	44.5	2.2
110°-120°	26.8	1.3
120°-130°	15.5	0.8
130°-140°	7.7	0.4
140°-150°	3.0	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	430.7	21.7
0°-40°	709.1	35.7
0°-60°	1287.1	64.8
0°-90°	1816.5	91.4
90°-120°	143.6	7.2
90°-150°	169.8	8.5
90°-180°	170.0	8.6
0°-180°	1986.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	553	553	553	553	553	
5°	554	554	552	549	549	53
15°	535	534	532	531	531	151
25°	494	493	493	496	498	228
35°	438	437	443	451	456	274
45°	368	371	383	398	404	283
55°	284	293	315	336	344	254
65°	191	209	240	270	280	189
75°	99	128	172	207	219	105
85°	24	63	115	152	165	26
90°	1	41	92	128	141	2
95°	0	26	71	105	118	0
105°	0	13	43	70	80	0
115°	0	7	27	46	53	0
125°	0	3	17	30	35	0
135°	0	1	9	18	21	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°	553.1	553.1	553.1	553.1	553.1
2.5°	557.1	556.1	554.1	550.1	548.1
5°	554.1	554.1	552.1	549.1	549.1
7.5°	551.1	550.1	548.1	546.1	545.1
10°	547.1	547.1	544.1	541.1	540.1
12.5°	542.1	541.1	539.1	536.1	536.1
15°	535.1	534.1	532.1	531.1	531.1
17.5°	527.1	526.1	524.1	524.1	525.1
20°	517.1	516.1	514.1	515.1	516.1
22.5°	506.1	505.1	504.1	505.1	507.1
25°	494.1	493.1	493.1	496.1	498.1
27.5°	480.1	480.1	482.1	486.1	488.1
30°	467.1	466.1	469.1	475.1	478.1
32.5°	453.1	452.1	457.1	464.1	467.1
35°	438.1	437.1	443.1	451.1	456.1
37.5°	421.1	422.1	429.1	439.1	443.1
40°	404.1	405.1	414.1	426.1	430.1
42.5°	386.1	388.1	399.1	412.1	418.1
45°	368.1	371.1	383.1	398.1	404.1
47.5°	347.1	352.1	367.1	383.1	389.1
50°	327.1	333.1	350.1	368.1	374.1
52.5°	306.1	313.1	333.1	352.1	359.1
55°	284.1	293.1	315.1	336.1	344.1
57.5°	262.1	273.1	297.1	320.1	328.1
60°	237.1	250.1	279.1	303.1	312.1
62.5°	214.1	229.1	259.1	287.1	296.1
65°	191.0	209.1	240.1	270.1	280.1
67.5°	168.0	188.0	223.1	252.1	265.1
70°	144.0	167.0	205.1	236.1	248.1
72.5°	121.0	147.0	188.0	221.1	234.1
75°	99.0	128.0	172.0	207.1	219.1
77.5°	77.0	109.0	157.0	192.0	205.1
80°	57.0	92.0	141.0	178.0	191.0
82.5°	39.0	77.0	128.0	165.0	178.0
85°	24.0	63.0	115.0	152.0	165.0
87.5°	11.0	51.0	103.0	140.0	153.0
90°	1.0	41.0	92.0	128.0	141.0
92.5°	0.0	33.0	81.0	116.0	130.0
95°	0.0	26.0	71.0	105.0	118.0
97.5°	0.0	21.0	63.0	96.0	108.0
100°	0.0	18.0	56.0	86.0	98.0
102.5°	0.0	15.0	49.0	78.0	89.0
105°	0.0	13.0	43.0	70.0	80.0
107.5°	0.0	11.0	38.0	63.0	72.0
110°	0.0	10.0	34.0	57.0	66.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	8.0	30.0	51.0	59.0
115°	0.0	7.0	27.0	46.0	53.0
117.5°	0.0	6.0	24.0	41.0	48.0
120°	0.0	5.0	22.0	38.0	44.0
122.5°	0.0	4.0	19.0	34.0	39.0
125°	0.0	3.0	17.0	30.0	35.0
127.5°	0.0	3.0	15.0	27.0	31.0
130°	0.0	2.0	13.0	24.0	28.0
132.5°	0.0	2.0	11.0	21.0	25.0
135°	0.0	1.0	9.0	18.0	21.0
137.5°	0.0	1.0	8.0	15.0	18.0
140°	0.0	1.0	6.0	13.0	16.0
142.5°	0.0	0.0	5.0	11.0	13.0
145°	0.0	0.0	4.0	9.0	11.0
147.5°	0.0	0.0	3.0	7.0	9.0
150°	0.0	0.0	2.0	5.0	7.0
152.5°	1.0	0.0	1.0	4.0	5.0
155°	0.0	0.0	0.0	2.0	3.0
157.5°	0.0	0.0	0.0	1.0	2.0
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)