

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: P236201

Luminaire Tested: **2SWLED-16SL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236201
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-16SL-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

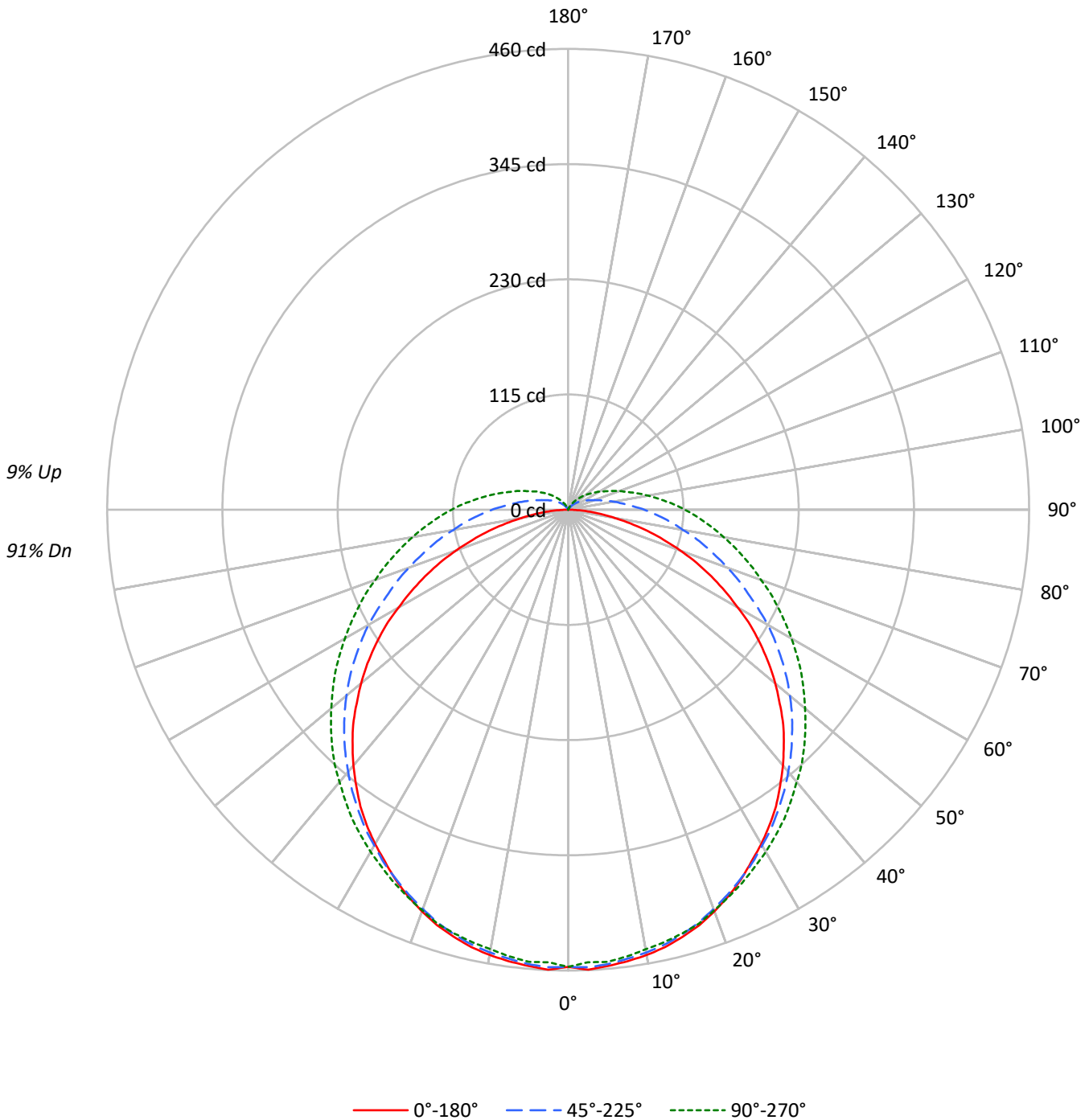
Lumens per Lamp: N/A
Luminaire Lumens: 1639.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 2' x H: 0.15')
CIE Type: Direct

Input Watts (W): 15.9
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	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	80	77	75	72	
2	94	85	78	71	91	83	76	70	78	72	67	73	68	64	69	65	61	69	65	61	59	
3	86	74	65	58	82	72	64	57	68	61	55	64	58	53	60	55	51	60	55	51	49	
4	78	65	56	49	75	64	55	48	60	52	47	56	50	45	53	48	44	53	48	44	41	
5	72	58	49	42	69	57	48	41	53	46	40	51	44	39	48	42	38	48	42	38	35	
6	66	52	43	36	64	51	42	36	48	41	35	46	39	34	43	37	33	43	37	33	31	
7	61	47	38	32	59	46	38	32	44	36	31	42	35	30	39	34	29	39	34	29	27	
8	57	43	34	28	55	42	34	28	40	33	27	38	31	27	36	30	26	36	30	26	24	
9	53	39	31	25	51	39	31	25	37	30	25	35	29	24	33	28	23	33	28	23	21	
10	50	36	28	23	48	36	28	23	34	27	22	32	26	22	31	25	21	31	25	21	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6549	6549	6549
5°	6544	6379	6312
10°	6493	6184	6076
15°	6433	5997	5895
20°	6347	5789	5696
25°	6242	5591	5508
30°	6127	5396	5338
35°	6024	5212	5181
40°	5884	5023	5012
45°	5743	4835	4871
50°	5542	4642	4708
55°	5310	4435	4566
60°	4982	4221	4415
65°	4628	3955	4277
70°	4153	3740	4151
75°	3561	3546	4088
80°	2748	3370	4063
85°	1778	3302	4116



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	2.6
10°-20°	124.0	7.6
20°-30°	188.1	11.5
30°-40°	229.6	14.0
40°-50°	244.7	14.9
50°-60°	232.1	14.2
60°-70°	195.1	11.9
70°-80°	145.3	8.9
80°-90°	96.3	5.9
90°-100°	59.7	3.6
100°-110°	36.7	2.2
110°-120°	22.1	1.3
120°-130°	12.8	0.8
130°-140°	6.4	0.4
140°-150°	2.5	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	355.3	21.7
0°-40°	584.9	35.7
0°-60°	1061.6	64.8
0°-90°	1498.4	91.4
90°-120°	118.5	7.2
90°-150°	140.2	8.6
90°-180°	141.0	8.6
0°-180°	1639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	457	457	455	453	453	43
15°	441	441	439	438	438	125
25°	408	407	407	409	411	188
35°	361	361	366	372	376	226
45°	304	306	316	328	333	234
55°	234	242	260	277	284	209
65°	158	172	198	223	231	156
75°	82	106	142	171	181	86
85°	20	52	95	125	136	22
90°	1	34	76	106	116	1
95°	0	22	59	87	97	0
105°	0	11	36	58	66	0
115°	0	6	22	38	44	0
125°	0	2	14	25	29	0
135°	0	1	7	15	17	0
145°	0	0	3	7	9	0
155°	0	0	0	2	2	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°	456.3	456.3	456.3	456.3	456.3
2.5°	459.6	458.7	457.1	453.8	452.1
5°	457.1	457.1	455.4	453.0	453.0
7.5°	454.6	453.8	452.1	450.5	449.7
10°	451.3	451.3	448.8	446.4	445.5
12.5°	447.2	446.4	444.7	442.2	442.2
15°	441.4	440.6	438.9	438.1	438.1
17.5°	434.8	434.0	432.3	432.3	433.2
20°	426.6	425.7	424.1	424.9	425.7
22.5°	417.5	416.7	415.8	416.7	418.3
25°	407.6	406.8	406.8	409.2	410.9
27.5°	396.0	396.0	397.7	401.0	402.6
30°	385.3	384.5	387.0	391.9	394.4
32.5°	373.8	372.9	377.1	382.8	385.3
35°	361.4	360.6	365.5	372.1	376.2
37.5°	347.4	348.2	354.0	362.2	365.5
40°	333.3	334.2	341.6	351.5	354.8
42.5°	318.5	320.1	329.2	339.9	344.9
45°	303.6	306.1	316.0	328.4	333.3
47.5°	286.3	290.4	302.8	316.0	321.0
50°	269.8	274.7	288.8	303.6	308.6
52.5°	252.5	258.2	274.7	290.4	296.2
55°	234.3	241.7	259.9	277.2	283.8
57.5°	216.2	225.2	245.0	264.0	270.6
60°	195.5	206.3	230.2	250.0	257.4
62.5°	176.6	188.9	213.7	236.8	244.2
65°	157.6	172.4	198.0	222.8	231.0
67.5°	138.6	155.1	184.0	207.9	218.6
70°	118.8	137.8	169.1	194.7	204.6
72.5°	99.8	121.3	155.1	182.3	193.1
75°	81.7	105.6	141.9	170.8	180.7
77.5°	63.5	89.9	129.5	158.4	169.1
80°	47.0	75.9	116.3	146.9	157.6
82.5°	32.2	63.5	105.6	136.1	146.9
85°	19.8	52.0	94.9	125.4	136.1
87.5°	9.1	42.1	85.0	115.5	126.2
90°	0.8	33.8	75.9	105.6	116.3
92.5°	0.0	27.2	66.8	95.7	107.3
95°	0.0	21.5	58.6	86.6	97.4
97.5°	0.0	17.3	52.0	79.2	89.1
100°	0.0	14.9	46.2	71.0	80.9
102.5°	0.0	12.4	40.4	64.4	73.4
105°	0.0	10.7	35.5	57.8	66.0
107.5°	0.0	9.1	31.4	52.0	59.4
110°	0.0	8.3	28.1	47.0	54.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	6.6	24.8	42.1	48.7
115°	0.0	5.8	22.3	38.0	43.7
117.5°	0.0	5.0	19.8	33.8	39.6
120°	0.0	4.1	18.2	31.4	36.3
122.5°	0.0	3.3	15.7	28.1	32.2
125°	0.0	2.5	14.0	24.8	28.9
127.5°	0.0	2.5	12.4	22.3	25.6
130°	0.0	1.7	10.7	19.8	23.1
132.5°	0.0	1.7	9.1	17.3	20.6
135°	0.0	0.8	7.4	14.9	17.3
137.5°	0.0	0.8	6.6	12.4	14.9
140°	0.0	0.8	5.0	10.7	13.2
142.5°	0.0	0.0	4.1	9.1	10.7
145°	0.0	0.0	3.3	7.4	9.1
147.5°	0.0	0.0	2.5	5.8	7.4
150°	0.0	0.0	1.7	4.1	5.8
152.5°	0.8	0.0	0.8	3.3	4.1
155°	0.0	0.0	0.0	1.7	2.5
157.5°	0.0	0.0	0.0	0.8	1.7
160°	0.0	0.0	0.0	0.0	0.8
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)