

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: P236219

Luminaire Tested: **2SWLED-24HL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SWLED-24HL-LW-UNV-L850-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
2FT FIXTURE WITH 2 ROW LED, WIDE LENS
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

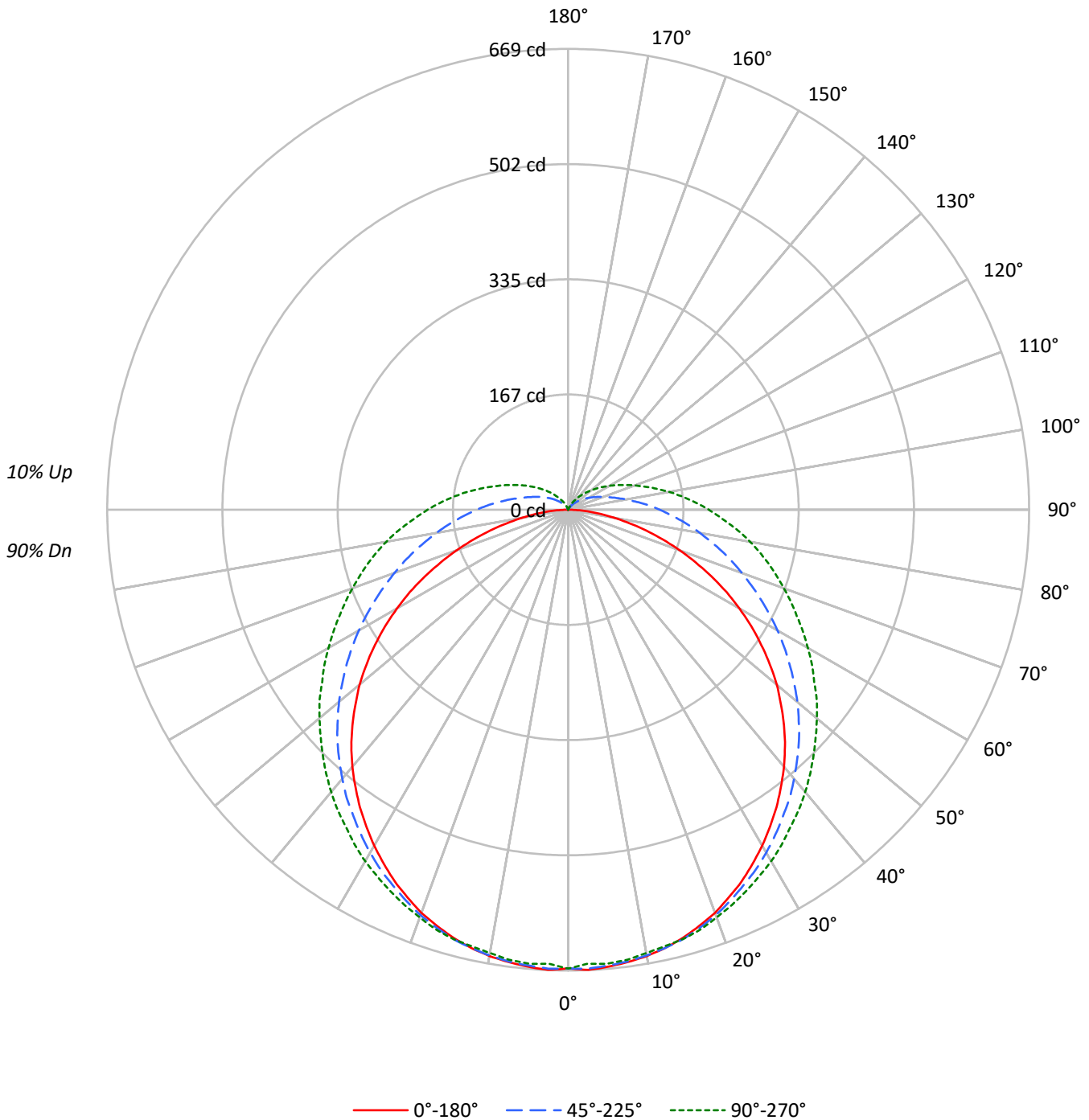
Lumens per Lamp: N/A
Luminaire Lumens: 2539.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 2' x H: 0.15')
CIE Type: Semi-Direct

Input Watts (W): 24
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	105	105	105	99	99	99	93	93	93	90
1	104	98	93	88	100	95	90	86	89	85	81	83	80	77	78	75	73	70
2	94	84	77	70	90	82	75	69	76	70	65	71	67	62	67	63	59	57
3	85	73	65	57	81	71	63	56	66	60	54	62	56	52	58	54	49	47
4	77	65	55	48	74	63	54	47	59	51	45	55	49	44	52	46	42	39
5	71	57	48	41	68	56	47	40	52	45	39	49	43	38	46	41	36	34
6	65	52	42	36	63	50	41	35	47	39	34	44	38	33	42	36	32	29
7	61	47	38	31	58	45	37	31	43	35	30	40	34	29	38	32	28	26
8	56	42	34	28	54	41	33	27	39	32	26	37	30	26	35	29	25	23
9	53	39	30	25	51	38	30	24	36	29	24	34	28	23	32	27	22	20
10	49	36	28	22	47	35	27	22	33	26	21	32	25	21	30	24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9558	9558	9558
5°	9534	9303	9216
10°	9466	9053	8911
15°	9377	8815	8682
20°	9265	8549	8428
25°	9122	8272	8190
30°	8955	8016	7975
35°	8785	7747	7742
40°	8603	7498	7559
45°	8382	7249	7359
50°	8120	6977	7187
55°	7750	6699	7012
60°	7314	6435	6888
65°	6731	6164	6785
70°	6027	5928	6755
75°	5113	5751	6798
80°	3958	5622	6910
85°	2515	5620	7095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	2.5
10°-20°	181.9	7.2
20°-30°	277.9	10.9
30°-40°	340.8	13.4
40°-50°	365.4	14.4
50°-60°	350.1	13.8
60°-70°	301.4	11.9
70°-80°	233.5	9.2
80°-90°	163.1	6.4
90°-100°	107.9	4.3
100°-110°	69.1	2.7
110°-120°	42.5	1.7
120°-130°	24.5	1.0
130°-140°	12.1	0.5
140°-150°	4.6	0.2
150°-160°	0.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	523.0	20.6
0°-40°	863.8	34.0
0°-60°	1579.4	62.2
0°-90°	2277.3	89.7
90°-120°	219.6	8.6
90°-150°	260.7	10.3
90°-180°	262.0	10.3
0°-180°	2539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	666	666	664	662	662	63
15°	643	644	645	645	645	182
25°	596	597	602	607	611	274
35°	527	532	543	557	562	330
45°	443	452	474	495	504	341
55°	342	359	393	424	436	306
65°	229	259	309	350	366	227
75°	117	162	230	282	300	124
85°	28	86	162	215	235	31
90°	0	60	133	186	204	2
95°	0	41	107	157	175	0
105°	0	20	68	109	124	0
115°	0	11	43	73	85	0
125°	0	5	27	48	56	0
135°	0	2	14	28	34	0
145°	1	0	6	14	16	0
155°	0	0	1	4	4	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°	666.0	666.0	666.0	666.0	666.0
2.5°	668.7	668.7	666.9	662.4	659.7
5°	666.0	666.0	664.2	661.5	661.5
7.5°	662.4	662.4	661.5	659.7	658.8
10°	657.9	658.8	657.0	654.3	653.4
12.5°	651.6	652.5	651.6	649.8	648.9
15°	643.4	644.3	645.2	645.2	645.2
17.5°	633.5	634.4	636.2	638.0	638.9
20°	622.7	623.6	626.3	628.1	629.9
22.5°	609.1	611.9	614.6	618.2	620.9
25°	595.6	597.4	601.9	607.3	611.0
27.5°	579.4	582.1	589.3	596.5	600.1
30°	563.1	566.7	574.9	583.9	589.3
32.5°	545.1	549.6	559.5	570.3	576.7
35°	527.0	531.5	543.3	556.8	562.2
37.5°	507.2	513.5	527.9	542.4	549.6
40°	487.3	493.6	509.9	527.0	535.1
42.5°	465.7	472.9	491.8	511.7	519.8
45°	443.1	452.1	473.8	495.4	503.6
47.5°	418.7	430.5	453.9	477.4	487.3
50°	395.3	407.0	434.1	460.2	471.1
52.5°	369.1	383.5	413.3	442.2	454.8
55°	342.0	359.2	392.6	424.1	435.9
57.5°	315.0	333.9	371.8	406.1	419.6
60°	287.0	308.6	351.0	387.1	401.6
62.5°	259.0	284.3	329.4	369.1	384.4
65°	229.2	259.0	308.6	350.1	366.4
67.5°	200.3	233.7	287.9	333.0	350.1
70°	172.4	207.6	268.0	315.0	333.0
72.5°	143.5	184.1	249.1	298.7	316.8
75°	117.3	161.5	230.1	281.6	300.5
77.5°	91.1	139.9	211.2	265.3	284.3
80°	67.7	120.0	194.0	249.1	268.0
82.5°	46.9	102.0	177.8	231.9	251.8
85°	28.0	85.7	161.5	214.8	234.6
87.5°	13.5	71.3	146.2	200.3	218.4
90°	0.0	59.6	132.7	185.9	204.0
92.5°	0.0	48.7	120.0	171.5	189.5
95°	0.0	40.6	107.4	157.0	175.1
97.5°	0.0	33.4	95.7	144.4	161.5
100°	0.0	28.0	85.7	131.8	148.9
102.5°	0.0	23.5	75.8	120.0	135.4
105°	0.0	19.9	67.7	109.2	124.5
107.5°	0.0	17.1	60.5	99.3	112.8
110°	0.0	14.4	54.1	89.3	102.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	12.6	48.7	81.2	93.9
115°	0.0	10.8	43.3	73.1	84.8
117.5°	0.0	9.0	38.8	65.9	76.7
120°	0.0	7.2	34.3	59.6	69.5
122.5°	0.0	6.3	30.7	53.2	62.3
125°	0.0	5.4	27.1	47.8	56.0
127.5°	0.0	4.5	23.5	42.4	49.6
130°	0.0	3.6	19.9	37.0	44.2
132.5°	0.0	1.8	17.1	32.5	38.8
135°	0.0	1.8	14.4	28.0	34.3
137.5°	0.0	0.9	12.6	24.4	28.9
140°	0.0	0.9	9.9	20.8	24.4
142.5°	0.0	0.0	8.1	17.1	19.9
145°	0.9	0.0	6.3	13.5	16.2
147.5°	0.0	0.0	4.5	10.8	13.5
150°	0.9	0.0	2.7	8.1	9.9
152.5°	0.9	0.0	0.9	5.4	7.2
155°	0.0	0.0	0.9	3.6	4.5
157.5°	0.0	0.0	0.0	0.9	2.7
160°	0.9	0.0	0.0	0.9	0.9
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)