

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: P236220

Luminaire Tested: **2SWLED-28HL-LW-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236220
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-28HL-LW-UNV-L835-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
2FT FIXTURE WITH 2 ROW LED, WIDE LENS
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

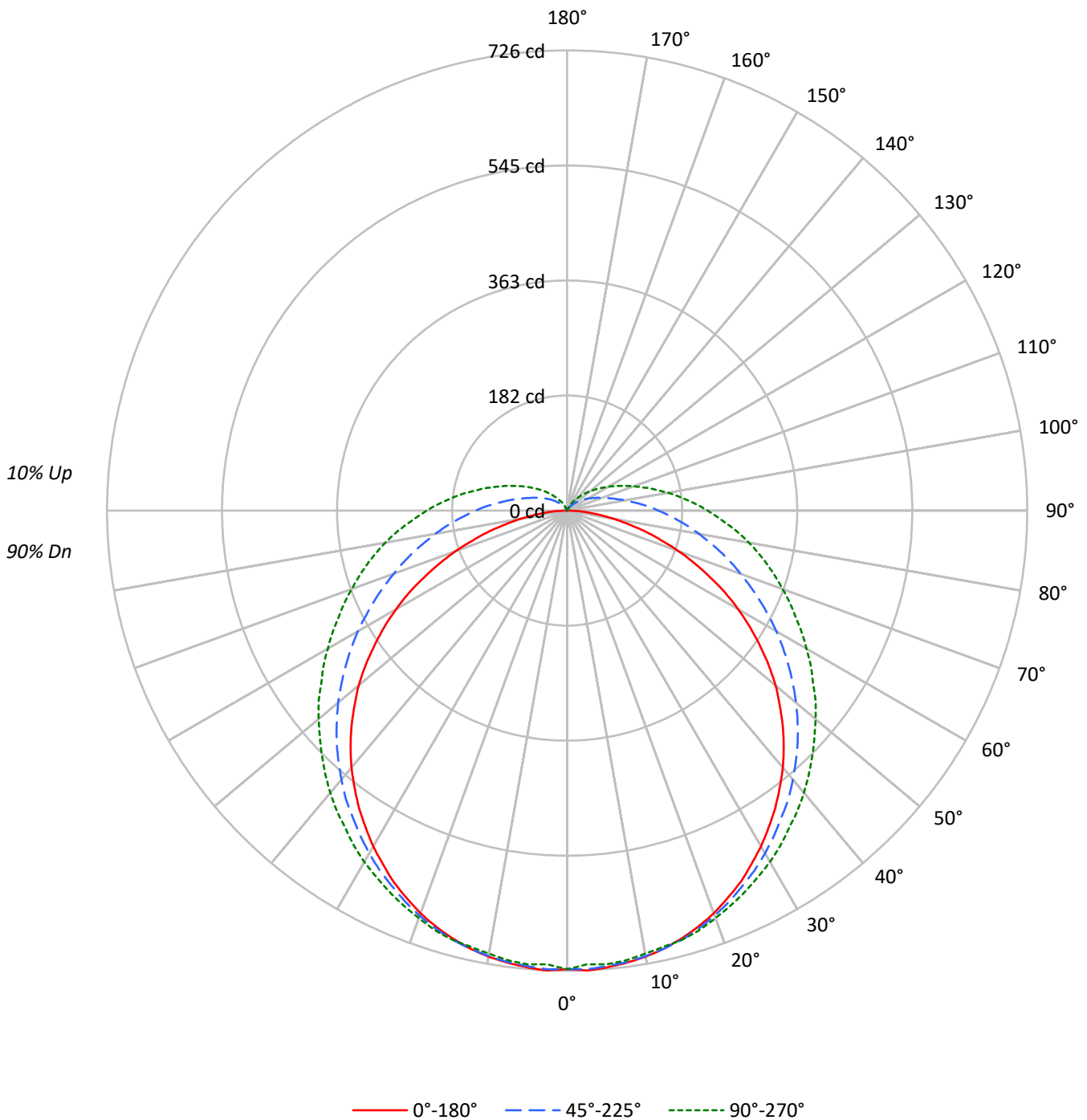
Lumens per Lamp: N/A
Luminaire Lumens: 2758.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 2' x H: 0.15')
CIE Type: Semi-Direct

Input Watts (W): 27.9
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°	10382	10382	10382
5°	10356	10106	10011
10°	10282	9833	9679
15°	10185	9576	9431
20°	10064	9286	9154
25°	9909	8985	8895
30°	9728	8706	8663
35°	9543	8415	8410
40°	9345	8145	8211
45°	9105	7874	7994
50°	8821	7578	7807
55°	8419	7276	7617
60°	7944	6991	7481
65°	7312	6697	7370
70°	6544	6439	7338
75°	5553	6248	7383
80°	4298	6109	7506
85°	2730	6107	7709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	2.5
10°-20°	197.6	7.2
20°-30°	301.9	10.9
30°-40°	370.2	13.4
40°-50°	397.0	14.4
50°-60°	380.3	13.8
60°-70°	327.4	11.9
70°-80°	253.6	9.2
80°-90°	177.2	6.4
90°-100°	117.2	4.3
100°-110°	75.1	2.7
110°-120°	46.2	1.7
120°-130°	26.6	1.0
130°-140°	13.1	0.5
140°-150°	5.0	0.2
150°-160°	0.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	568.1	20.6
0°-40°	938.3	34.0
0°-60°	1715.6	62.2
0°-90°	2473.8	89.7
90°-120°	238.5	8.6
90°-150°	283.3	10.3
90°-180°	284.0	10.3
0°-180°	2758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	723	723	722	718	718	69
15°	699	700	701	701	701	197
25°	647	649	654	660	664	298
35°	572	577	590	605	611	358
45°	481	491	515	538	547	371
55°	372	390	426	461	474	332
65°	249	281	335	380	398	247
75°	127	176	250	306	326	135
85°	30	93	176	233	255	34
90°	0	65	144	202	222	2
95°	0	44	117	171	190	0
105°	0	22	74	119	135	0
115°	0	12	47	79	92	0
125°	0	6	29	52	61	0
135°	0	2	16	30	37	0
145°	1	0	7	15	18	0
155°	0	0	1	4	5	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°	723.4	723.4	723.4	723.4	723.4
2.5°	726.4	726.4	724.4	719.5	716.6
5°	723.4	723.4	721.5	718.5	718.5
7.5°	719.5	719.5	718.5	716.6	715.6
10°	714.6	715.6	713.6	710.7	709.7
12.5°	707.8	708.7	707.8	705.8	704.8
15°	698.9	699.9	700.9	700.9	700.9
17.5°	688.2	689.1	691.1	693.1	694.0
20°	676.4	677.4	680.3	682.3	684.2
22.5°	661.7	664.6	667.6	671.5	674.4
25°	647.0	648.9	653.8	659.7	663.6
27.5°	629.3	632.3	640.1	648.0	651.9
30°	611.7	615.6	624.4	634.2	640.1
32.5°	592.1	597.0	607.8	619.5	626.4
35°	572.5	577.4	590.1	604.8	610.7
37.5°	550.9	557.8	573.5	589.1	597.0
40°	529.3	536.2	553.9	572.5	581.3
42.5°	505.8	513.7	534.3	555.8	564.6
45°	481.3	491.1	514.6	538.2	547.0
47.5°	454.8	467.6	493.1	518.6	529.3
50°	429.4	442.1	471.5	499.9	511.7
52.5°	400.9	416.6	449.0	480.3	494.1
55°	371.5	390.2	426.4	460.7	473.5
57.5°	342.1	362.7	403.9	441.1	455.8
60°	311.7	335.3	381.3	420.5	436.2
62.5°	281.3	308.8	357.8	400.9	417.6
65°	249.0	281.3	335.3	380.3	398.0
67.5°	217.6	253.9	312.7	361.7	380.3
70°	187.2	225.5	291.1	342.1	361.7
72.5°	155.9	200.0	270.6	324.5	344.1
75°	127.4	175.5	250.0	305.8	326.4
77.5°	99.0	151.9	229.4	288.2	308.8
80°	73.5	130.4	210.8	270.6	291.1
82.5°	51.0	110.8	193.1	251.9	273.5
85°	30.4	93.1	175.5	233.3	254.9
87.5°	14.7	77.4	158.8	217.6	237.2
90°	0.0	64.7	144.1	201.9	221.5
92.5°	0.0	52.9	130.4	186.3	205.9
95°	0.0	44.1	116.7	170.6	190.2
97.5°	0.0	36.3	103.9	156.8	175.5
100°	0.0	30.4	93.1	143.1	161.7
102.5°	0.0	25.5	82.3	130.4	147.0
105°	0.0	21.6	73.5	118.6	135.3
107.5°	0.0	18.6	65.7	107.8	122.5
110°	0.0	15.7	58.8	97.0	111.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	13.7	52.9	88.2	101.9
115°	0.0	11.8	47.1	79.4	92.1
117.5°	0.0	9.8	42.2	71.6	83.3
120°	0.0	7.8	37.3	64.7	75.5
122.5°	0.0	6.9	33.3	57.8	67.6
125°	0.0	5.9	29.4	52.0	60.8
127.5°	0.0	4.9	25.5	46.1	53.9
130°	0.0	3.9	21.6	40.2	48.0
132.5°	0.0	2.0	18.6	35.3	42.2
135°	0.0	2.0	15.7	30.4	37.3
137.5°	0.0	1.0	13.7	26.5	31.4
140°	0.0	1.0	10.8	22.5	26.5
142.5°	0.0	0.0	8.8	18.6	21.6
145°	1.0	0.0	6.9	14.7	17.6
147.5°	0.0	0.0	4.9	11.8	14.7
150°	1.0	0.0	2.9	8.8	10.8
152.5°	1.0	0.0	1.0	5.9	7.8
155°	0.0	0.0	1.0	3.9	4.9
157.5°	0.0	0.0	0.0	1.0	2.9
160°	1.0	0.0	0.0	1.0	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)