

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: P236214

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-9)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SWLED-28HL-LN-UNV-L835-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
2FT FIXTURE WITH 2 ROW LED, NARROW LENS
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

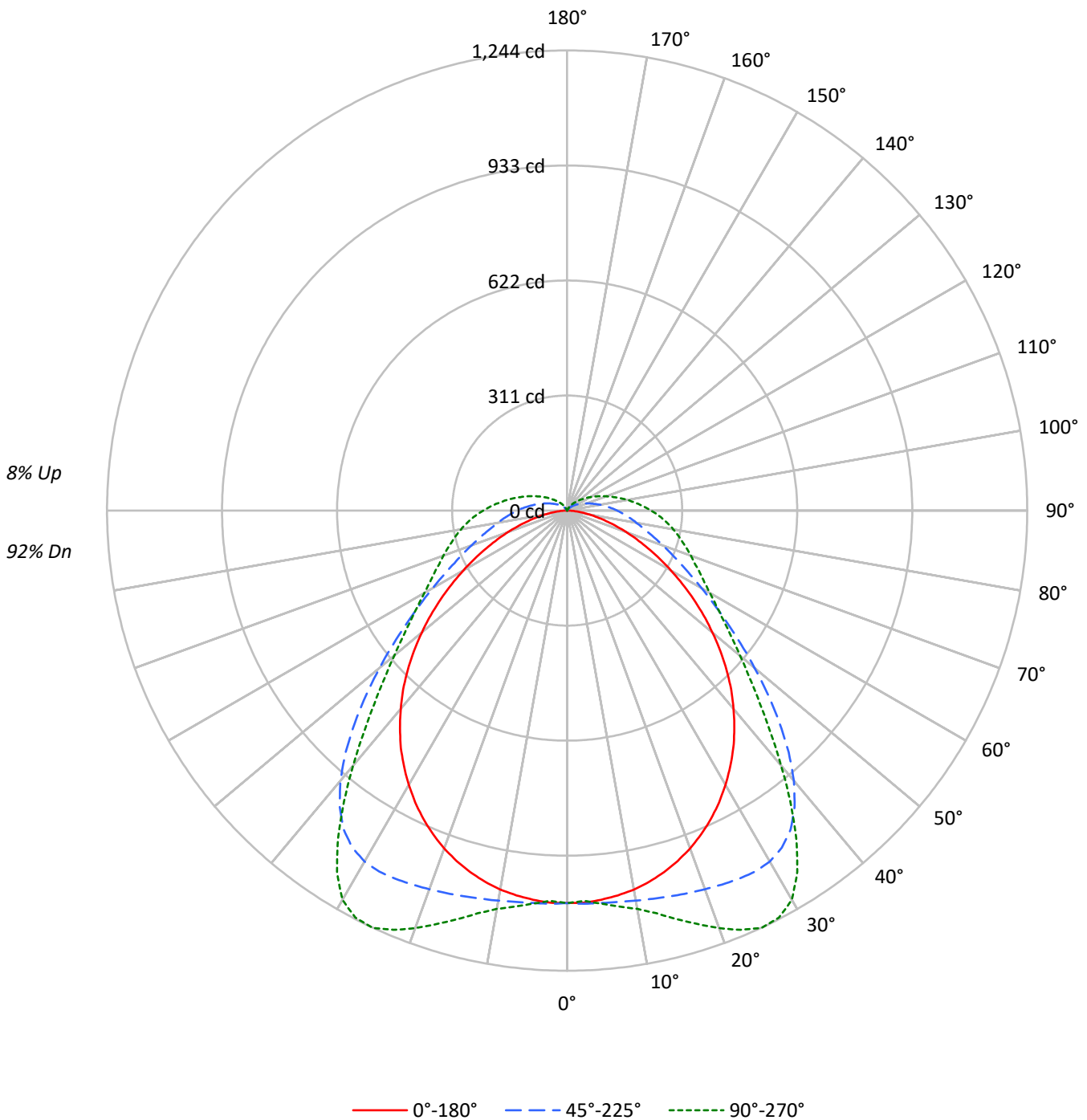
Lumens per Lamp: N/A
Luminaire Lumens: 3563.0 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.48 / 1.45
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 2' x H: 0.15')
CIE Type: Direct

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	114	114	114	114	107	107	107	101	101	101	95	95	95	92
1	106	101	96	92	103	98	94	90	92	89	86	87	84	82	82	80	78	75
2	97	88	81	75	93	85	79	74	81	75	71	76	72	68	72	69	65	63
3	88	77	69	63	85	75	68	62	71	65	60	67	62	58	64	59	56	53
4	81	69	60	53	78	67	59	53	63	57	51	60	54	49	57	52	48	46
5	74	62	53	46	72	60	52	45	57	50	44	54	48	43	52	46	42	40
6	69	56	47	40	66	54	46	40	52	44	39	49	43	38	47	41	37	35
7	64	50	42	36	62	49	41	35	47	40	34	45	38	34	43	37	33	31
8	59	46	38	32	57	45	37	31	43	36	31	41	35	30	39	34	30	28
9	55	42	34	29	54	41	34	28	40	33	28	38	32	27	36	31	27	25
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15227	15227	15227
5°	15118	14916	14863
10°	14970	14755	14911
15°	14747	14750	15384
20°	14457	14871	16071
25°	14087	15092	16679
30°	13613	15272	16442
35°	13060	15017	14867
40°	12360	14016	12714
45°	11538	12422	10761
50°	10534	10639	9305
55°	9443	8986	8282
60°	8272	7695	7636
65°	7054	6717	7318
70°	5929	6094	7220
75°	4743	5661	7275
80°	3555	5512	7508
85°	2290	5595	7857



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	2.9
10°-20°	306.0	8.6
20°-30°	501.9	14.1
30°-40°	614.2	17.2
40°-50°	573.2	16.1
50°-60°	452.2	12.7
60°-70°	331.6	9.3
70°-80°	237.9	6.7
80°-90°	168.2	4.7
90°-100°	115.1	3.2
100°-110°	74.5	2.1
110°-120°	44.7	1.3
120°-130°	24.6	0.7
130°-140°	11.9	0.3
140°-150°	4.5	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	909.6	25.5
0°-40°	1523.9	42.8
0°-60°	2549.3	71.5
0°-90°	3286.9	92.3
90°-120°	234.2	6.6
90°-150°	275.2	7.7
90°-180°	276.0	7.7
0°-180°	3563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1056	1061	1065	1067	1067	100
15°	1012	1034	1080	1124	1143	285
25°	920	975	1098	1205	1244	423
35°	784	882	1053	1089	1080	489
45°	610	730	812	755	736	469
55°	417	507	527	510	515	373
65°	240	300	336	374	395	241
75°	109	156	226	295	322	117
85°	26	76	161	232	260	28
90°	0	54	135	203	226	2
95°	0	38	111	173	195	0
105°	0	20	72	120	137	0
115°	0	11	44	78	91	0
125°	0	5	26	48	57	0
135°	0	1	15	28	33	0
145°	1	0	6	14	17	0
155°	1	1	0	3	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°	1061.0	1061.0	1061.0	1061.0	1061.0
2.5°	1061.0	1064.9	1063.9	1060.0	1056.1
5°	1056.1	1061.0	1064.9	1066.8	1066.8
7.5°	1049.2	1057.0	1066.8	1076.6	1079.6
10°	1040.4	1052.1	1070.8	1087.4	1093.3
12.5°	1027.6	1044.3	1074.7	1102.1	1114.9
15°	1011.9	1034.5	1079.6	1123.7	1143.3
17.5°	993.3	1022.7	1084.5	1145.3	1171.8
20°	971.7	1009.0	1089.4	1167.8	1201.2
22.5°	947.2	993.3	1094.3	1188.4	1226.7
25°	919.8	974.7	1098.2	1205.1	1244.3
27.5°	889.4	955.1	1100.2	1210.0	1240.4
30°	856.0	933.5	1095.3	1193.3	1214.9
32.5°	820.7	910.0	1080.6	1153.1	1158.0
35°	783.5	882.5	1053.1	1089.4	1079.6
37.5°	742.3	852.1	1010.0	1010.0	990.4
40°	700.1	817.8	953.1	924.7	900.1
42.5°	656.0	776.6	886.4	838.4	813.9
45°	609.9	730.5	811.9	755.0	736.4
47.5°	561.9	679.5	736.4	681.5	668.7
50°	512.8	623.6	661.9	615.8	609.9
52.5°	464.8	565.8	591.3	558.9	558.9
55°	416.7	506.9	526.6	509.9	514.8
57.5°	369.7	451.1	469.7	467.7	477.5
60°	324.6	396.1	419.7	431.4	445.2
62.5°	282.4	345.2	375.6	400.1	417.7
65°	240.2	300.0	336.3	373.6	395.2
67.5°	204.0	257.9	304.0	350.1	373.6
70°	169.6	217.7	275.5	330.4	355.9
72.5°	137.3	184.3	249.1	312.8	338.3
75°	108.8	155.9	226.5	295.1	321.6
77.5°	83.3	131.4	206.9	279.5	306.9
80°	60.8	109.8	190.2	264.7	291.2
82.5°	42.2	92.2	175.5	248.1	275.5
85°	25.5	76.5	160.8	232.4	259.8
87.5°	11.8	64.7	147.1	217.7	244.2
90°	0.0	53.9	135.3	203.0	226.5
92.5°	0.0	45.1	123.5	187.3	210.8
95°	0.0	38.2	110.8	172.6	195.1
97.5°	0.0	32.4	100.0	158.8	179.4
100°	0.0	26.5	90.2	145.1	165.7
102.5°	0.0	22.6	80.4	131.4	151.0
105°	0.0	19.6	71.6	119.6	137.3
107.5°	0.0	16.7	63.7	107.9	124.5
110°	0.0	14.7	55.9	97.1	112.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	12.7	50.0	87.3	102.0
115°	0.0	10.8	44.1	77.5	91.2
117.5°	0.0	8.8	39.2	68.6	81.4
120°	0.0	7.8	34.3	60.8	72.6
122.5°	0.0	5.9	30.4	54.9	64.7
125°	0.0	4.9	26.5	48.0	56.9
127.5°	0.0	3.9	23.5	42.2	50.0
130°	0.0	2.9	20.6	37.3	44.1
132.5°	0.0	2.0	17.6	32.4	38.2
135°	0.0	1.0	14.7	28.4	33.3
137.5°	0.0	0.0	11.8	23.5	28.4
140°	0.0	0.0	9.8	19.6	24.5
142.5°	0.0	0.0	7.8	16.7	20.6
145°	1.0	0.0	5.9	13.7	16.7
147.5°	1.0	0.0	3.9	10.8	12.7
150°	1.0	0.0	2.0	7.8	9.8
152.5°	1.0	0.0	0.0	4.9	6.9
155°	1.0	1.0	0.0	2.9	3.9
157.5°	1.0	1.0	0.0	0.0	2.0
160°	1.0	1.0	0.0	0.0	0.0
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)