

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: P236241

Luminaire Tested: **4SWLED-16SL-LN-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-17)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-16SL-LN-UNV-L835-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 1 ROW LED, NARROW LENS
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

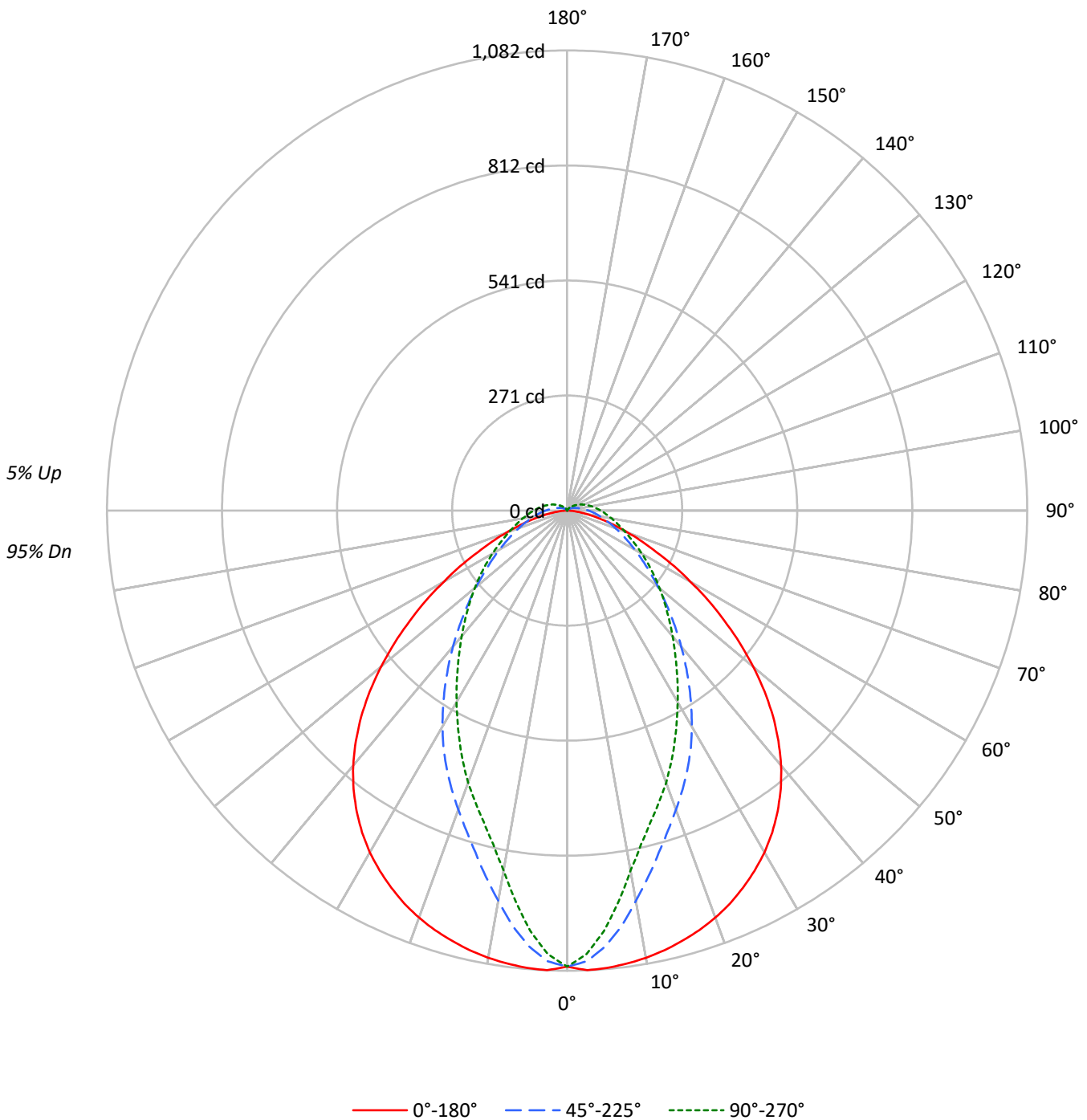
Lumens per Lamp: N/A
Luminaire Lumens: 2011.0 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 0.77 / 1
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 14.3
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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95				
1	108	103	99	95	105	101	97	93	95	92	90	91	88	86	86	84	83	80				
2	99	91	85	79	96	89	83	78	85	80	75	81	77	73	77	74	71	68				
3	91	81	73	67	88	79	72	66	76	70	65	72	67	63	69	65	61	59				
4	84	73	65	58	81	71	63	58	68	61	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	47	43	41				
7	67	55	46	41	65	54	46	40	52	45	40	50	44	39	48	43	38	37				
8	63	50	42	37	61	49	42	36	48	41	36	46	40	35	45	39	35	33				
9	59	46	39	33	57	46	38	33	44	37	33	43	37	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	35	30	40	34	30	39	33	29	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7694	7694	7694
5°	7750	7219	6913
10°	7731	6446	5860
15°	7704	5725	5101
20°	7677	5149	4553
25°	7617	4652	4013
30°	7531	4138	3517
35°	7371	3612	3084
40°	7114	3121	2723
45°	6703	2674	2417
50°	6109	2294	2163
55°	5360	1981	1935
60°	4514	1732	1740
65°	3646	1537	1578
70°	2901	1391	1462
75°	2189	1271	1392
80°	1579	1207	1367
85°	971	1178	1375



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	4.8
10°-20°	242.9	12.1
20°-30°	329.3	16.4
30°-40°	349.8	17.4
40°-50°	312.8	15.6
50°-60°	242.4	12.1
60°-70°	167.5	8.3
70°-80°	107.1	5.3
80°-90°	65.6	3.3
90°-100°	40.8	2.0
100°-110°	25.6	1.3
110°-120°	15.7	0.8
120°-130°	8.9	0.4
130°-140°	4.5	0.2
140°-150°	1.9	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	667.8	33.2
0°-40°	1017.6	50.6
0°-60°	1572.8	78.2
0°-90°	1913.0	95.1
90°-120°	82.0	4.1
90°-150°	97.4	4.8
90°-180°	98.0	4.9
0°-180°	2011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1079	1053	1028	1001	992	103
15°	1047	944	833	772	758	296
25°	978	795	670	614	599	451
35°	863	629	499	456	448	539
45°	685	441	343	328	331	526
55°	451	272	226	235	241	404
65°	232	154	149	165	170	235
75°	90	78	97	118	123	99
85°	17	35	64	85	91	20
90°	0	23	50	72	79	1
95°	0	14	39	60	68	0
105°	0	6	23	41	49	0
115°	0	4	15	27	33	0
125°	0	2	9	18	21	0
135°	0	1	6	10	12	0
145°	0	0	2	6	6	0
155°	1	0	1	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°	1072.2	1072.2	1072.2	1072.2	1072.2
2.5°	1081.7	1064.2	1060.6	1050.3	1043.6
5°	1079.3	1053.1	1028.5	1000.7	992.3
7.5°	1074.5	1034.0	984.4	937.5	926.8
10°	1067.8	1008.2	931.6	874.0	859.3
12.5°	1058.7	978.0	882.0	818.4	803.7
15°	1047.1	944.3	832.7	772.0	758.1
17.5°	1034.4	909.7	788.6	730.7	718.3
20°	1018.6	871.2	748.1	690.9	680.6
22.5°	1000.3	834.7	709.2	651.6	639.7
25°	978.4	795.4	669.9	613.5	598.8
27.5°	954.6	755.7	629.4	572.2	558.3
30°	928.0	715.6	586.1	530.5	519.8
32.5°	897.4	673.5	542.4	492.0	482.9
35°	862.9	629.4	499.2	455.5	447.9
37.5°	825.2	583.3	457.5	420.1	415.4
40°	782.7	536.1	417.3	387.6	385.6
42.5°	735.4	488.8	378.4	357.4	357.4
45°	684.6	441.2	342.7	328.4	330.8
47.5°	629.4	393.9	309.7	302.6	306.6
50°	571.0	349.8	279.2	278.4	283.5
52.5°	511.5	308.9	251.0	255.7	261.7
55°	450.7	271.6	226.3	234.7	240.6
57.5°	393.9	237.5	204.1	215.6	221.2
60°	334.4	206.9	183.5	197.4	202.9
62.5°	284.3	178.7	166.0	180.3	185.8
65°	231.5	154.1	148.9	165.2	170.4
67.5°	191.0	131.8	134.2	151.7	156.5
70°	152.1	111.6	121.1	139.4	144.1
72.5°	120.3	92.9	109.2	128.3	133.0
75°	89.7	77.8	97.3	118.3	123.1
77.5°	65.5	64.7	87.8	109.2	114.4
80°	46.1	52.8	79.0	100.1	106.0
82.5°	29.8	42.9	71.1	91.7	97.7
85°	16.7	34.9	63.5	84.6	90.9
87.5°	7.9	28.2	56.8	78.2	85.0
90°	0.4	22.6	50.4	71.9	79.0
92.5°	0.0	17.9	44.9	65.9	73.5
95°	0.0	14.3	39.3	60.4	67.9
97.5°	0.0	11.5	34.5	55.2	62.7
100°	0.0	9.1	30.6	50.0	58.0
102.5°	0.0	7.5	26.6	45.7	53.6
105°	0.0	6.4	23.4	41.3	48.8
107.5°	0.0	5.6	20.6	37.3	44.9
110°	0.0	4.8	18.7	33.8	40.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	4.4	16.3	30.6	37.3
115°	0.0	3.6	14.7	27.4	33.4
117.5°	0.0	3.2	13.1	24.6	30.2
120°	0.0	2.8	11.5	22.2	27.0
122.5°	0.0	2.4	10.3	19.5	23.8
125°	0.0	2.0	9.1	17.5	21.0
127.5°	0.4	1.6	8.3	15.5	18.3
130°	0.4	1.2	7.1	13.5	16.3
132.5°	0.4	1.2	6.4	11.9	13.9
135°	0.4	0.8	5.6	10.3	12.3
137.5°	0.4	0.8	4.8	9.1	10.3
140°	0.4	0.4	4.0	7.5	9.1
142.5°	0.4	0.4	3.2	6.4	7.5
145°	0.4	0.4	2.4	5.6	6.4
147.5°	0.4	0.4	2.0	4.4	5.2
150°	0.4	0.4	1.6	3.6	4.0
152.5°	0.4	0.4	1.2	2.8	3.2
155°	0.8	0.4	0.8	2.0	2.4
157.5°	0.8	0.8	0.8	1.6	1.6
160°	0.8	0.8	0.8	0.8	1.2
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)