

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: P236199

Luminaire Tested: **2SWLED-16SL-LW-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236199
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-L835-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
2FT FIXTURE WITH 1 ROW LED, WIDE LENS
Light Source: (56) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

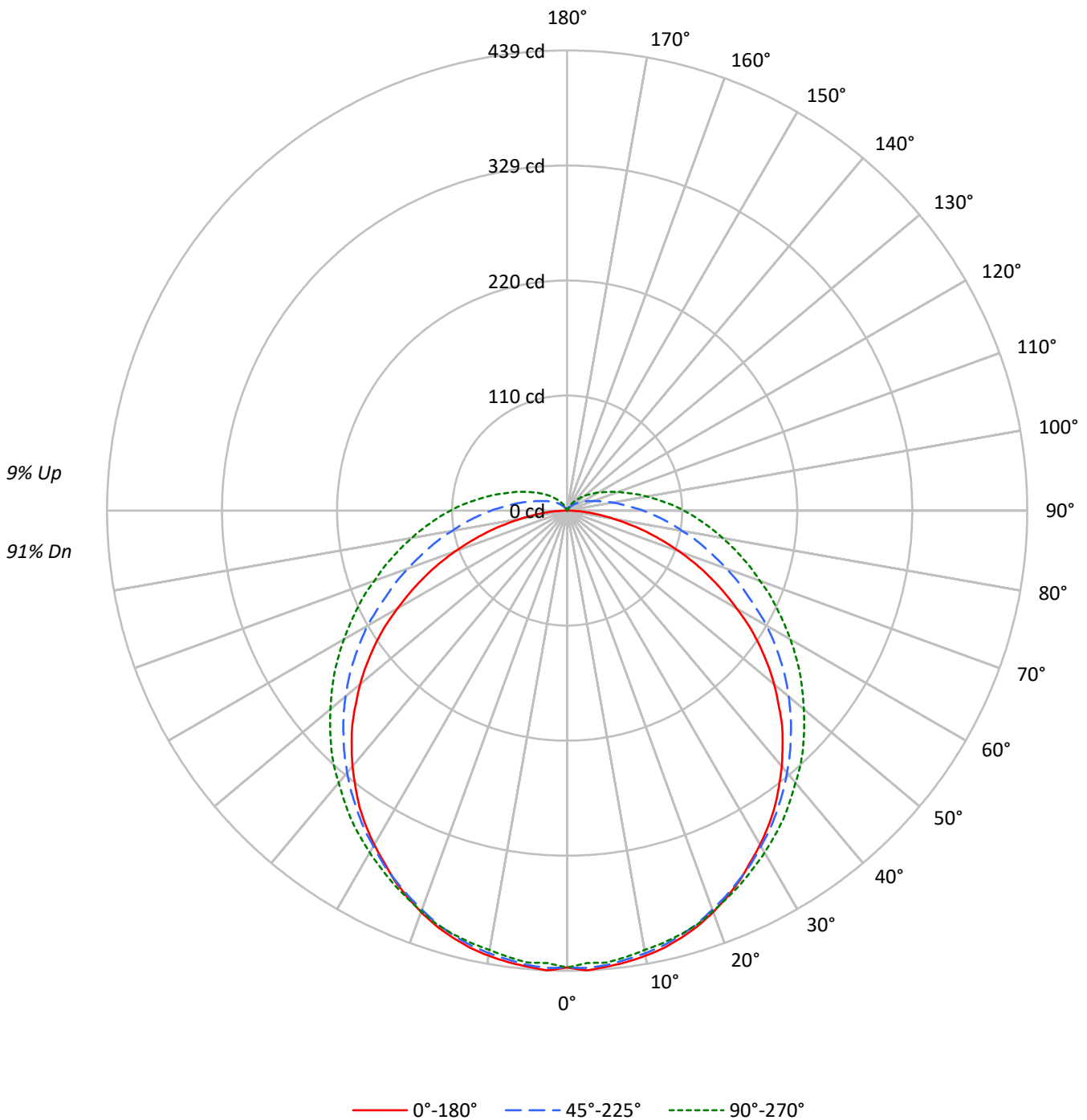
Lumens per Lamp: N/A
Luminaire Lumens: 1566.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 2' x H: 0.15')
CIE Type: Direct

Input Watts (W): 15.9
Input Voltage (V): 120
Input Current (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	106	106	106	100	100	100	94	94	94	91
1	105	99	94	89	101	96	91	87	90	86	83	85	82	79	80	77	75	72
2	94	85	78	71	91	83	76	70	78	72	67	73	68	64	69	65	61	59
3	86	74	65	58	82	72	64	57	68	61	55	64	58	53	60	55	51	49
4	78	65	56	49	75	64	55	48	60	52	47	56	50	45	53	48	44	41
5	72	58	49	42	69	57	48	41	53	46	40	51	44	39	48	42	38	35
6	66	52	43	36	64	51	42	36	48	41	35	46	39	34	43	37	33	31
7	61	47	38	32	59	46	38	32	44	36	31	42	35	30	39	34	29	27
8	57	43	34	28	55	42	34	28	40	33	27	38	31	27	36	30	26	24
9	53	39	31	25	51	39	31	25	37	30	25	35	29	24	33	28	23	21
10	50	36	28	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6256	6256	6256
5°	6252	6096	6030
10°	6204	5909	5806
15°	6147	5730	5633
20°	6064	5531	5443
25°	5964	5340	5263
30°	5854	5155	5099
35°	5756	4980	4951
40°	5623	4800	4789
45°	5488	4619	4654
50°	5296	4434	4498
55°	5074	4237	4363
60°	4761	4032	4219
65°	4423	3779	4087
70°	3968	3574	3966
75°	3400	3389	3904
80°	2625	3223	3883
85°	1697	3156	3935



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	2.6
10°-20°	118.4	7.6
20°-30°	179.7	11.5
30°-40°	219.4	14.0
40°-50°	233.8	14.9
50°-60°	221.7	14.2
60°-70°	186.4	11.9
70°-80°	138.9	8.9
80°-90°	92.0	5.9
90°-100°	57.0	3.6
100°-110°	35.1	2.2
110°-120°	21.1	1.3
120°-130°	12.2	0.8
130°-140°	6.1	0.4
140°-150°	2.4	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	339.5	21.7
0°-40°	558.9	35.7
0°-60°	1014.4	64.8
0°-90°	1431.7	91.4
90°-120°	113.2	7.2
90°-150°	133.9	8.5
90°-180°	134.0	8.6
0°-180°	1566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	436	436	436	436	436	
5°	437	437	435	433	433	42
15°	422	421	419	419	419	119
25°	389	389	389	391	393	179
35°	345	344	349	356	360	216
45°	290	292	302	314	318	223
55°	224	231	248	265	271	200
65°	151	165	189	213	221	149
75°	78	101	136	163	173	83
85°	19	50	91	120	130	21
90°	1	32	72	101	111	1
95°	0	20	56	83	93	0
105°	0	10	34	55	63	0
115°	0	6	21	36	42	0
125°	0	2	13	24	28	0
135°	0	1	7	14	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°	435.9	435.9	435.9	435.9	435.9
2.5°	439.1	438.3	436.7	433.6	432.0
5°	436.7	436.7	435.2	432.8	432.8
7.5°	434.4	433.6	432.0	430.4	429.6
10°	431.2	431.2	428.8	426.5	425.7
12.5°	427.3	426.5	424.9	422.5	422.5
15°	421.8	421.0	419.4	418.6	418.6
17.5°	415.4	414.7	413.1	413.1	413.9
20°	407.6	406.8	405.2	406.0	406.8
22.5°	398.9	398.1	397.3	398.1	399.7
25°	389.4	388.6	388.6	391.0	392.6
27.5°	378.4	378.4	380.0	383.1	384.7
30°	368.1	367.4	369.7	374.5	376.8
32.5°	357.1	356.3	360.3	365.8	368.1
35°	345.3	344.5	349.2	355.5	359.5
37.5°	331.9	332.7	338.2	346.1	349.2
40°	318.5	319.3	326.4	335.8	339.0
42.5°	304.3	305.9	314.5	324.8	329.5
45°	290.1	292.5	301.9	313.8	318.5
47.5°	273.5	277.5	289.3	301.9	306.7
50°	257.8	262.5	275.9	290.1	294.8
52.5°	241.2	246.7	262.5	277.5	283.0
55°	223.9	231.0	248.3	264.9	271.2
57.5°	206.5	215.2	234.1	252.3	258.6
60°	186.8	197.1	219.9	238.9	246.0
62.5°	168.7	180.5	204.2	226.2	233.3
65°	150.6	164.8	189.2	212.8	220.7
67.5°	132.4	148.2	175.8	198.7	208.9
70°	113.5	131.6	161.6	186.0	195.5
72.5°	95.4	115.9	148.2	174.2	184.5
75°	78.0	100.9	135.6	163.2	172.6
77.5°	60.7	85.9	123.8	151.4	161.6
80°	44.9	72.5	111.2	140.3	150.6
82.5°	30.7	60.7	100.9	130.1	140.3
85°	18.9	49.7	90.7	119.8	130.1
87.5°	8.7	40.2	81.2	110.4	120.6
90°	0.8	32.3	72.5	100.9	111.2
92.5°	0.0	26.0	63.9	91.4	102.5
95°	0.0	20.5	56.0	82.8	93.0
97.5°	0.0	16.6	49.7	75.7	85.1
100°	0.0	14.2	44.1	67.8	77.3
102.5°	0.0	11.8	38.6	61.5	70.2
105°	0.0	10.2	33.9	55.2	63.1
107.5°	0.0	8.7	30.0	49.7	56.8
110°	0.0	7.9	26.8	44.9	52.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	6.3	23.6	40.2	46.5
115°	0.0	5.5	21.3	36.3	41.8
117.5°	0.0	4.7	18.9	32.3	37.8
120°	0.0	3.9	17.3	30.0	34.7
122.5°	0.0	3.2	15.0	26.8	30.7
125°	0.0	2.4	13.4	23.6	27.6
127.5°	0.0	2.4	11.8	21.3	24.4
130°	0.0	1.6	10.2	18.9	22.1
132.5°	0.0	1.6	8.7	16.6	19.7
135°	0.0	0.8	7.1	14.2	16.6
137.5°	0.0	0.8	6.3	11.8	14.2
140°	0.0	0.8	4.7	10.2	12.6
142.5°	0.0	0.0	3.9	8.7	10.2
145°	0.0	0.0	3.2	7.1	8.7
147.5°	0.0	0.0	2.4	5.5	7.1
150°	0.0	0.0	1.6	3.9	5.5
152.5°	0.8	0.0	0.8	3.2	3.9
155°	0.0	0.0	0.0	1.6	2.4
157.5°	0.0	0.0	0.0	0.8	1.6
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)