

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: P236264

Luminaire Tested: **4SWLED-20SL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-20SL-LW-UNV-L850-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 1 ROW LED, WIDE LENS
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

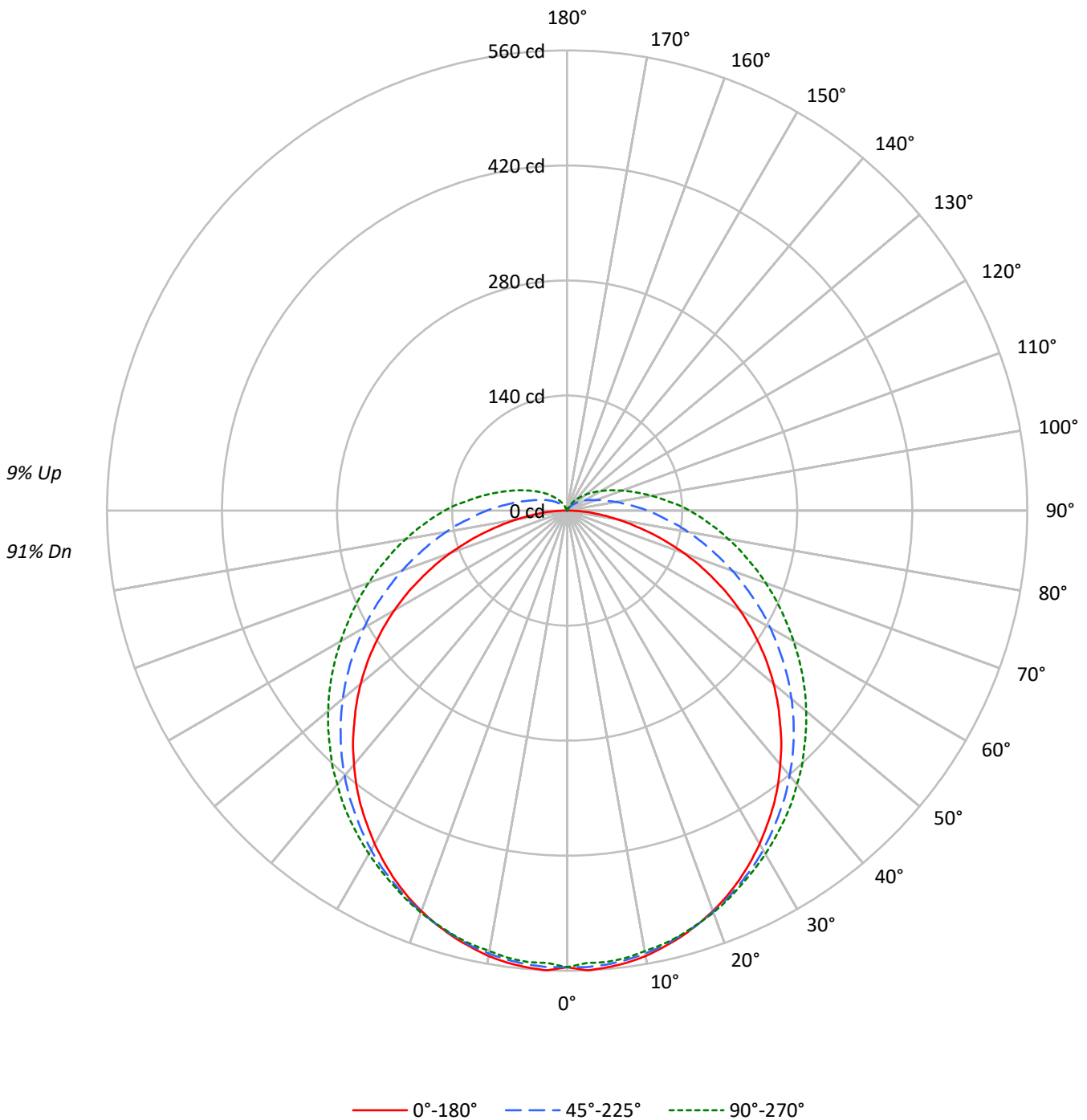
Lumens per Lamp: N/A
Luminaire Lumens: 2035.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 17.6
Input Voltage (V): 120
Input Current (A_{in}): 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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	94	94	94	91	
1	104	99	94	89	101	96	91	87	90	86	82	84	81	78	79	76	74	74	74	74	71	
2	94	85	77	71	91	82	75	69	77	71	66	72	68	63	68	64	61	61	61	61	58	
3	85	74	65	58	82	72	63	57	67	60	55	63	57	53	60	55	51	51	51	51	48	
4	78	65	56	49	75	63	55	48	59	52	46	56	50	45	53	47	43	43	43	43	40	
5	71	58	49	42	69	56	47	41	53	45	40	50	43	38	47	42	37	37	37	37	35	
6	66	52	43	36	63	51	42	35	48	40	34	45	39	33	43	37	32	32	32	32	30	
7	61	47	38	32	59	46	37	31	43	36	30	41	34	29	39	33	29	29	29	29	26	
8	57	43	34	28	55	42	33	28	40	32	27	38	31	26	36	30	26	26	26	26	23	
9	53	39	31	25	51	38	30	25	36	29	24	35	28	24	33	27	23	23	23	23	21	
10	50	36	28	23	48	35	28	22	34	27	22	32	26	21	31	25	21	21	21	21	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3987	3987	3987
5°	4007	3893	3842
10°	3986	3789	3712
15°	3949	3680	3598
20°	3908	3576	3483
25°	3860	3471	3367
30°	3801	3368	3266
35°	3741	3257	3169
40°	3668	3151	3072
45°	3589	3041	2982
50°	3509	2929	2896
55°	3406	2813	2814
60°	3278	2693	2730
65°	3106	2569	2661
70°	2882	2457	2607
75°	2548	2351	2569
80°	2154	2283	2568
85°	1680	2238	2614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	2.6
10°-20°	150.8	7.4
20°-30°	229.6	11.3
30°-40°	280.4	13.8
40°-50°	299.3	14.7
50°-60°	285.6	14.0
60°-70°	243.6	12.0
70°-80°	184.0	9.0
80°-90°	123.5	6.1
90°-100°	77.4	3.8
100°-110°	48.2	2.4
110°-120°	29.6	1.5
120°-130°	17.3	0.8
130°-140°	8.8	0.4
140°-150°	3.5	0.2
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	433.0	21.3
0°-40°	713.4	35.1
0°-60°	1298.3	63.8
0°-90°	1849.4	90.9
90°-120°	155.2	7.6
90°-150°	184.8	9.1
90°-180°	186.0	9.1
0°-180°	2035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	556	556	556	556	556	
5°	558	552	555	552	552	53
15°	537	531	535	534	535	151
25°	496	492	500	500	502	228
35°	438	438	450	455	460	274
45°	366	373	390	401	408	283
55°	286	298	321	340	350	256
65°	197	215	249	276	287	195
75°	104	134	180	215	227	111
85°	29	67	121	160	173	30
90°	0	46	98	136	149	2
95°	0	29	76	112	124	0
105°	0	14	47	76	86	0
115°	0	8	30	50	58	0
125°	0	5	19	33	38	0
135°	0	2	11	20	24	0
145°	0	0	5	10	13	0
155°	0	0	1	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°	555.6	555.6	555.6	555.6	555.6
2.5°	560.1	553.5	556.1	554.1	551.0
5°	558.1	552.0	554.6	552.0	551.5
7.5°	555.1	549.0	551.5	549.5	549.0
10°	550.5	543.9	547.5	544.9	544.4
12.5°	543.9	538.3	542.4	539.9	540.4
15°	536.8	531.2	535.3	534.3	534.8
17.5°	528.2	523.1	528.2	527.2	527.7
20°	518.6	514.0	519.6	519.1	520.6
22.5°	507.9	503.4	510.5	509.4	512.0
25°	495.8	492.2	499.8	500.3	502.3
27.5°	482.6	480.0	489.2	489.7	492.7
30°	468.4	466.4	477.0	479.0	482.6
32.5°	453.2	452.7	463.8	467.4	471.4
35°	438.0	437.5	450.1	454.7	460.3
37.5°	421.2	422.3	436.4	442.5	448.6
40°	403.5	405.0	421.2	428.8	434.9
42.5°	385.8	389.8	406.0	415.7	422.8
45°	366.5	372.6	389.8	401.0	408.1
47.5°	347.7	354.8	373.6	386.3	394.4
50°	328.0	336.1	356.4	371.1	379.7
52.5°	307.7	316.8	339.1	355.8	365.0
55°	286.4	297.6	321.4	339.6	349.8
57.5°	265.1	277.8	303.1	324.4	334.1
60°	242.8	257.0	285.4	307.7	318.3
62.5°	220.5	236.7	267.6	292.5	302.6
65°	197.2	215.4	248.9	275.8	287.4
67.5°	174.4	195.2	231.1	260.0	272.2
70°	151.1	173.9	213.9	244.8	257.0
72.5°	127.7	153.6	196.7	230.1	242.3
75°	104.4	133.8	180.0	215.4	227.1
77.5°	82.6	114.1	164.2	200.2	213.4
80°	62.9	96.8	149.5	186.5	199.2
82.5°	44.6	81.6	135.3	172.9	186.0
85°	28.9	67.4	120.6	159.7	172.9
87.5°	14.2	55.3	109.0	147.5	160.7
90°	0.5	45.6	97.8	135.9	149.0
92.5°	0.0	36.5	86.7	123.2	137.4
95°	0.0	29.4	76.5	111.5	124.2
97.5°	0.0	24.3	67.9	101.9	114.1
100°	0.0	19.8	60.3	92.3	103.9
102.5°	0.0	16.7	53.2	83.6	94.8
105°	0.0	14.2	47.1	75.5	86.2
107.5°	0.0	12.7	42.1	68.4	78.1
110°	0.0	11.2	37.5	61.8	71.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	9.6	33.5	55.8	64.4
115°	0.0	8.1	30.4	50.2	58.3
117.5°	0.0	7.1	27.4	45.1	52.7
120°	0.0	6.1	24.3	41.1	47.6
122.5°	0.0	5.1	21.8	37.0	43.1
125°	0.0	4.6	19.3	32.9	38.5
127.5°	0.0	3.5	17.2	29.4	35.0
130°	0.0	3.0	14.7	26.4	30.9
132.5°	0.0	2.0	12.7	23.3	27.4
135°	0.0	1.5	10.6	20.3	23.8
137.5°	0.0	1.0	9.1	17.7	20.8
140°	0.0	1.0	7.1	15.2	17.7
142.5°	0.0	0.5	5.6	12.7	15.2
145°	0.0	0.5	4.6	10.1	12.7
147.5°	0.5	0.0	3.0	8.1	10.1
150°	0.5	0.0	2.5	6.1	8.1
152.5°	0.5	0.0	1.5	4.6	6.1
155°	0.5	0.0	1.0	3.0	4.1
157.5°	0.5	0.5	0.5	1.5	2.5
160°	0.5	0.0	0.0	1.0	1.5
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)