

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: P236250

Luminaire Tested: **4SWLED-32SL-LN-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236250
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-32SL-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

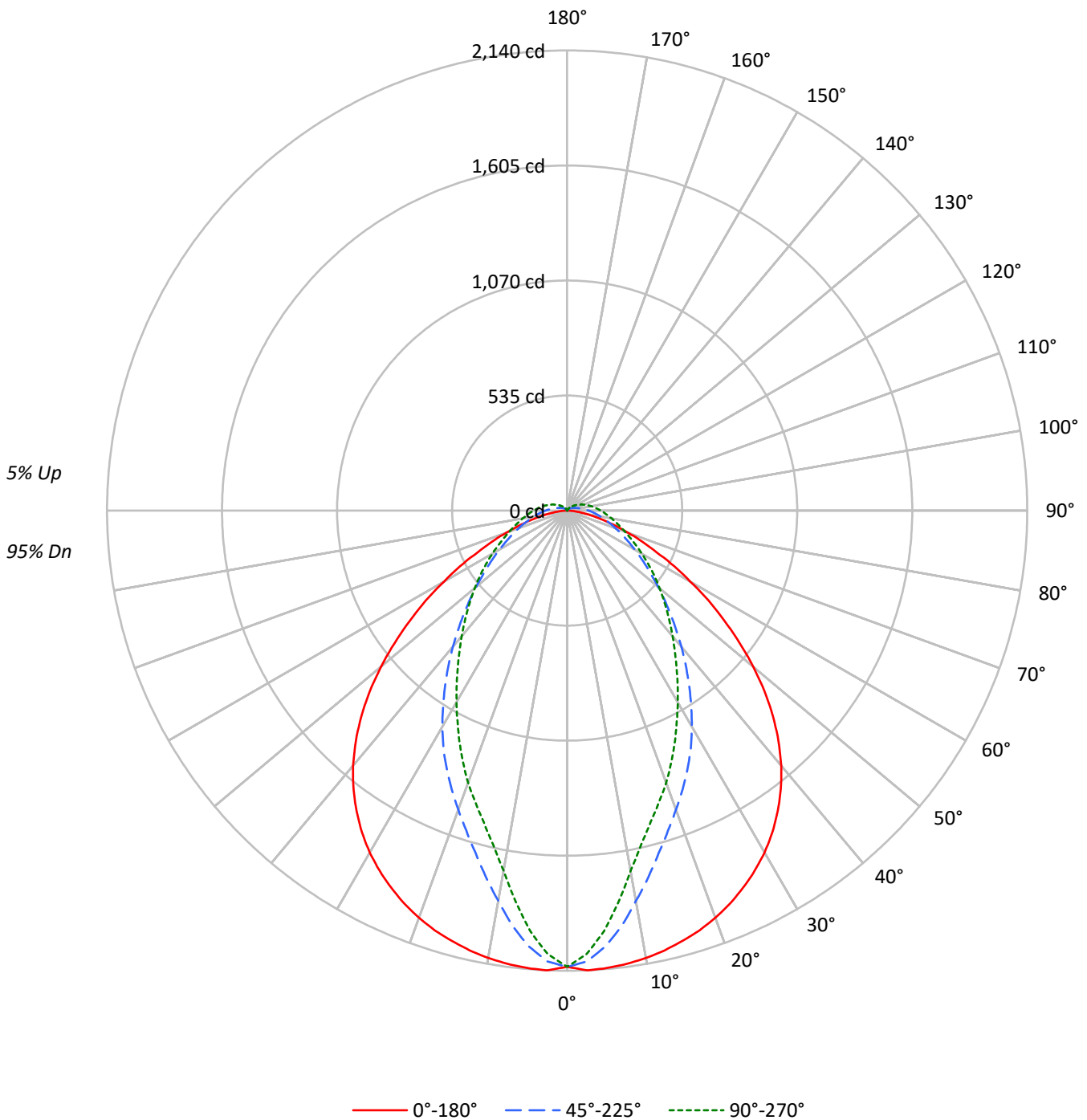
Lumens per Lamp: N/A
Luminaire Lumens: 3979.0 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 0.78 / 1
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 28.6
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

TEST NUMBER: P236250

CATALOG NUMBER: 4SWLED-32SL-LN-UNV-L835-CD1-U

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°	15223	15223	15223
5°	15334	14283	13678
10°	15297	12755	11594
15°	15243	11327	10091
20°	15188	10189	9009
25°	15073	9204	7941
30°	14901	8188	6960
35°	14584	7147	6102
40°	14076	6177	5388
45°	13263	5290	4782
50°	12088	4539	4280
55°	10605	3920	3830
60°	8931	3425	3443
65°	7214	3041	3121
70°	5738	2753	2893
75°	4334	2515	2755
80°	3120	2389	2705
85°	1918	2332	2720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	4.8
10°-20°	480.6	12.1
20°-30°	651.6	16.4
30°-40°	692.2	17.4
40°-50°	618.9	15.6
50°-60°	479.6	12.1
60°-70°	331.5	8.3
70°-80°	211.9	5.3
80°-90°	129.8	3.3
90°-100°	80.7	2.0
100°-110°	50.6	1.3
110°-120°	31.0	0.8
120°-130°	17.6	0.4
130°-140°	9.0	0.2
140°-150°	3.7	0.1
150°-160°	1.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1321.3	33.2
0°-40°	2013.4	50.6
0°-60°	3112.0	78.2
0°-90°	3785.1	95.1
90°-120°	162.3	4.1
90°-150°	192.7	4.8
90°-180°	194.0	4.9
0°-180°	3979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2121	2121	2121	2121	2121	
5°	2136	2084	2035	1980	1964	203
15°	2072	1868	1648	1527	1500	585
25°	1936	1574	1326	1214	1185	892
35°	1707	1245	988	901	886	1066
45°	1355	873	678	650	654	1040
55°	892	537	448	464	476	799
65°	458	305	295	327	337	464
75°	178	154	192	234	244	195
85°	33	69	126	167	180	40
90°	1	45	100	142	156	2
95°	0	28	78	119	134	0
105°	0	13	46	82	97	0
115°	0	7	29	54	66	0
125°	0	4	18	35	42	0
135°	1	2	11	20	24	1
145°	1	1	5	11	13	1
155°	2	1	2	4	5	1
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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CATALOG NUMBER: 4SWLED-32SL-LN-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2121.4	2121.4	2121.4	2121.4	2121.4
2.5°	2140.3	2105.7	2098.6	2078.2	2064.8
5°	2135.5	2083.7	2035.0	1980.0	1963.5
7.5°	2126.1	2046.0	1947.8	1855.0	1833.8
10°	2112.8	1994.9	1843.3	1729.3	1700.3
12.5°	2094.7	1935.2	1745.0	1619.3	1590.3
15°	2071.9	1868.4	1647.6	1527.4	1499.9
17.5°	2046.8	1800.0	1560.4	1445.7	1421.3
20°	2015.3	1723.8	1480.3	1367.1	1346.7
22.5°	1979.2	1651.5	1403.3	1289.3	1265.8
25°	1936.0	1573.8	1325.5	1213.9	1184.8
27.5°	1888.8	1495.2	1245.3	1132.2	1104.7
30°	1836.2	1415.8	1159.7	1049.7	1028.5
32.5°	1775.7	1332.6	1073.3	973.5	955.4
35°	1707.3	1245.3	987.6	901.2	886.3
37.5°	1632.7	1154.2	905.1	831.3	821.8
40°	1548.6	1060.7	825.8	766.8	762.9
42.5°	1455.1	967.2	748.8	707.1	707.1
45°	1354.6	872.9	678.1	649.8	654.5
47.5°	1245.3	779.4	612.8	598.7	606.6
50°	1129.8	692.2	552.3	550.8	561.0
52.5°	1012.0	611.3	496.6	506.0	517.8
55°	891.8	537.4	447.9	464.4	476.1
57.5°	779.4	469.9	403.9	426.6	437.6
60°	661.6	409.4	363.0	390.5	401.5
62.5°	562.6	353.6	328.4	356.7	367.7
65°	458.1	304.9	294.6	326.9	337.1
67.5°	377.9	260.9	265.6	300.1	309.6
70°	300.9	220.8	239.6	275.8	285.2
72.5°	238.1	183.9	216.1	253.8	263.2
75°	177.6	154.0	192.5	234.1	243.6
77.5°	129.6	128.1	173.6	216.1	226.3
80°	91.1	104.5	156.4	198.0	209.8
82.5°	58.9	84.9	140.6	181.5	193.3
85°	33.0	69.1	125.7	167.4	179.9
87.5°	15.7	55.8	112.4	154.8	168.1
90°	0.8	44.8	99.8	142.2	156.4
92.5°	0.0	35.4	88.8	130.4	145.4
95°	0.0	28.3	77.8	119.4	134.4
97.5°	0.0	22.8	68.4	109.2	124.1
100°	0.0	18.1	60.5	99.0	114.7
102.5°	0.0	14.9	52.6	90.4	106.1
105°	0.0	12.6	46.4	81.7	96.6
107.5°	0.0	11.0	40.9	73.9	88.8
110°	0.0	9.4	36.9	66.8	80.9



TEST NUMBER: P236250

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	8.6	32.2	60.5	73.9
115°	0.0	7.1	29.1	54.2	66.0
117.5°	0.0	6.3	25.9	48.7	59.7
120°	0.0	5.5	22.8	44.0	53.4
122.5°	0.0	4.7	20.4	38.5	47.1
125°	0.0	3.9	18.1	34.6	41.6
127.5°	0.8	3.1	16.5	30.6	36.1
130°	0.8	2.4	14.1	26.7	32.2
132.5°	0.8	2.4	12.6	23.6	27.5
135°	0.8	1.6	11.0	20.4	24.4
137.5°	0.8	1.6	9.4	18.1	20.4
140°	0.8	0.8	7.9	14.9	18.1
142.5°	0.8	0.8	6.3	12.6	14.9
145°	0.8	0.8	4.7	11.0	12.6
147.5°	0.8	0.8	3.9	8.6	10.2
150°	0.8	0.8	3.1	7.1	7.9
152.5°	0.8	0.8	2.4	5.5	6.3
155°	1.6	0.8	1.6	3.9	4.7
157.5°	1.6	1.6	1.6	3.1	3.1
160°	1.6	1.6	1.6	1.6	2.4
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)