

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: P236235

Luminaire Tested: **4SWLED-36SL-LC-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-16)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-36SL-LC-UNV-L835-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 1 ROW LED, CLEAR LENS
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

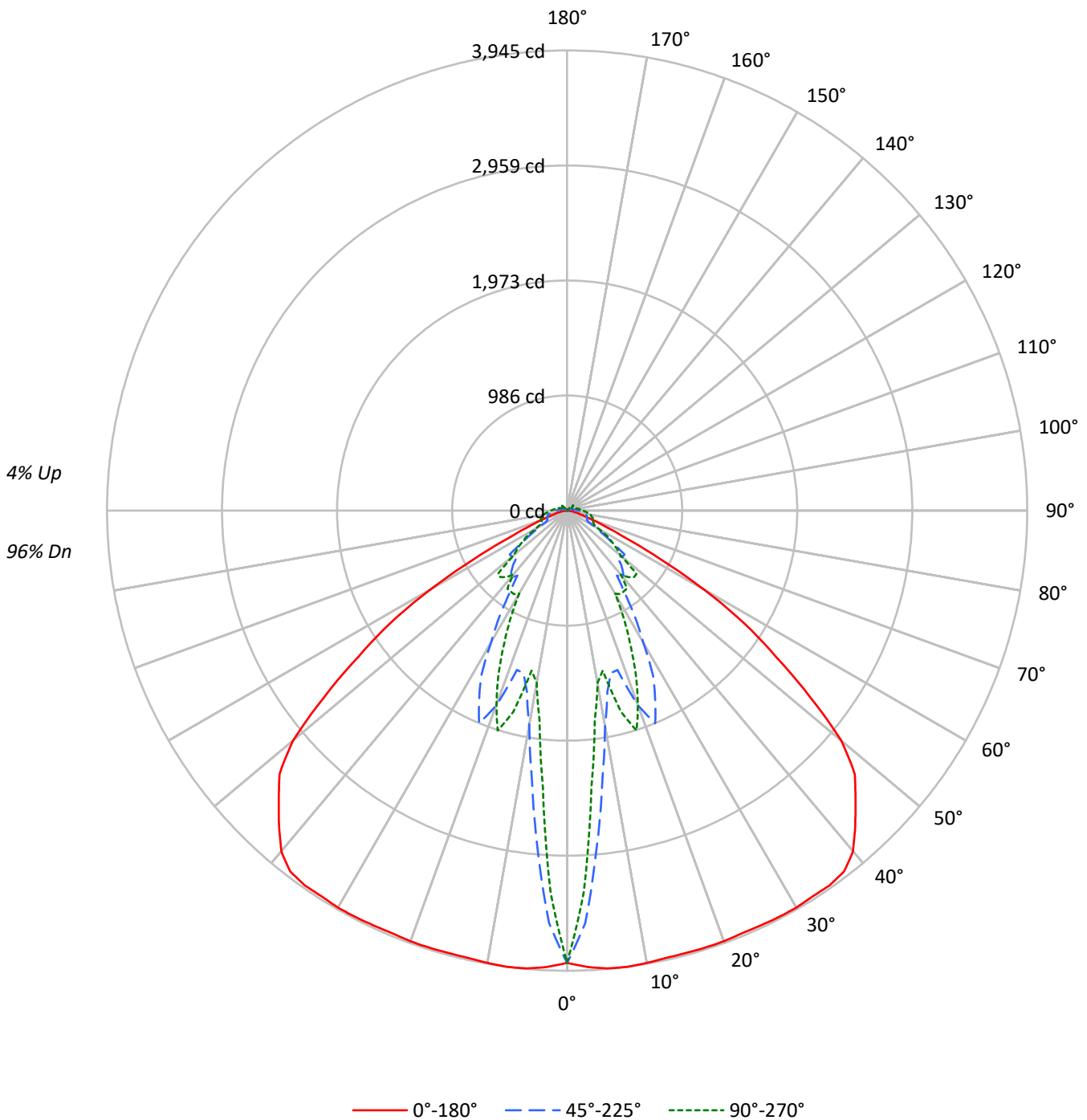
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4738.0 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Spacing Criteria (0/90/45): 1.54 / 0.24 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 32.8
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: P236235
CATALOG NUMBER: 4SWLED-36SL-LC-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P236235

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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	109	109	109	104	104	104	99	99	99	99	99	99	96	
1	109	105	101	97	106	102	99	95	97	94	92	93	90	88	89	87	85	89	87	85	83	
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	80	77	74	72	
3	93	83	76	70	90	82	75	69	78	72	68	75	70	66	72	68	65	72	68	65	62	
4	86	75	67	61	83	73	66	61	71	64	59	68	63	58	65	61	57	65	61	57	55	
5	80	68	60	54	77	67	59	53	64	58	52	62	56	52	60	55	51	60	55	51	49	
6	74	62	54	48	72	61	53	47	59	52	47	57	51	46	55	50	45	55	50	45	44	
7	69	57	49	43	67	56	48	43	54	47	42	52	46	42	51	45	41	51	45	41	39	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	47	41	37	36	
9	61	48	41	35	59	47	40	35	46	39	35	45	39	34	44	38	34	44	38	34	32	
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	41	35	31	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27824	27824	27824
5°	28292	20392	16587
10°	28502	12956	10222
15°	28893	9915	12010
20°	29610	12251	11854
25°	30554	12396	8666
30°	31890	9196	5562
35°	33501	6168	5821
40°	34656	5658	5059
45°	34223	5091	5903
50°	32849	5055	4572
55°	25980	3993	3776
60°	18315	2429	2656
65°	8547	1927	2335
70°	4293	2085	2363
75°	2619	2257	2506
80°	1702	2346	2654
85°	860	2429	2572



TEST NUMBER: P236235

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.1	5.6
10°-20°	580.6	12.3
20°-30°	828.9	17.5
30°-40°	885.2	18.7
40°-50°	823.4	17.4
50°-60°	605.4	12.8
60°-70°	269.3	5.7
70°-80°	177.4	3.7
80°-90°	122.9	2.6
90°-100°	72.5	1.5
100°-110°	42.0	0.9
110°-120°	25.6	0.5
120°-130°	18.4	0.4
130°-140°	15.5	0.3
140°-150°	4.5	0.1
150°-160°	1.3	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1674.6	35.3
0°-40°	2559.8	54.0
0°-60°	3988.6	84.2
0°-90°	4558.1	96.2
90°-120°	140.0	3.0
90°-150°	178.5	3.8
90°-180°	180.0	3.8
0°-180°	4738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3877	3877	3877	3877	3877	
5°	3940	3514	2905	2528	2381	376
15°	3927	2129	1442	1593	1785	1114
25°	3924	1372	1785	1405	1293	1817
35°	3922	1653	852	866	845	2451
45°	3495	710	653	725	808	2691
55°	2185	423	456	462	469	1966
65°	543	164	187	236	252	631
75°	107	106	173	229	222	124
85°	15	62	131	164	170	20
90°	0	46	101	129	137	1
95°	0	33	74	97	113	0
105°	0	18	42	58	78	0
115°	1	10	26	39	51	1
125°	1	4	16	31	52	1
135°	1	2	14	43	52	1
145°	2	2	6	11	11	1
155°	2	2	3	4	4	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P236235

CATALOG NUMBER: 4SWLED-36SL-LC-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3877.4	3877.4	3877.4	3877.4	3877.4
2.5°	3916.6	3746.5	3538.8	3355.6	3277.1
5°	3940.2	3514.4	2905.4	2527.6	2381.0
7.5°	3945.4	3189.0	2316.5	1900.3	1813.9
10°	3936.7	2806.8	1872.4	1545.2	1499.0
12.5°	3928.0	2451.7	1589.7	1427.4	1405.6
15°	3927.1	2128.9	1442.2	1593.2	1785.1
17.5°	3928.9	1816.5	1431.8	1982.3	1978.0
20°	3928.9	1587.1	1779.9	1892.4	1772.0
22.5°	3921.0	1424.8	1973.6	1678.7	1546.1
25°	3924.5	1372.4	1785.1	1404.7	1293.0
27.5°	3928.9	1443.1	1596.7	1175.3	1065.3
30°	3929.7	1642.9	1302.6	951.0	821.9
32.5°	3920.1	1745.9	1083.6	757.3	848.9
35°	3921.9	1653.4	852.4	865.5	845.4
37.5°	3900.1	1442.2	701.5	803.6	842.8
40°	3812.8	1162.2	756.5	753.8	716.3
42.5°	3655.8	902.2	707.6	686.7	773.9
45°	3495.2	710.2	652.6	725.0	807.9
47.5°	3345.2	572.4	580.2	795.7	806.2
50°	3070.3	537.5	615.1	673.6	599.4
52.5°	2626.2	489.5	620.3	527.0	536.6
55°	2184.7	423.2	456.3	461.6	469.4
57.5°	1806.9	400.5	344.6	417.1	405.7
60°	1356.7	349.0	257.4	328.1	309.7
62.5°	896.9	219.9	198.1	253.9	256.5
65°	542.7	164.0	186.7	236.4	252.2
67.5°	342.0	144.8	184.1	239.1	235.6
70°	225.1	130.9	181.5	239.1	233.0
72.5°	151.8	118.7	178.0	236.4	237.3
75°	107.3	105.6	172.8	228.6	221.6
77.5°	75.0	94.2	165.8	213.8	207.7
80°	49.7	82.9	153.6	198.1	205.9
82.5°	29.7	71.5	143.1	181.5	189.3
85°	14.8	61.9	130.9	164.0	170.1
87.5°	6.1	54.1	116.0	145.7	150.9
90°	0.0	46.2	101.2	129.1	137.0
92.5°	0.0	39.3	87.2	112.6	124.8
95°	0.0	33.2	74.2	96.8	112.6
97.5°	0.0	28.8	63.7	84.6	102.1
100°	0.0	24.4	55.0	73.3	93.4
102.5°	0.0	21.8	47.1	64.6	85.5
105°	0.0	18.3	41.9	57.6	77.7
107.5°	0.0	15.7	36.6	51.5	69.8
110°	0.0	14.0	32.3	47.1	62.8



TEST NUMBER: P236235

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	12.2	29.7	42.8	55.8
115°	0.9	10.5	26.2	39.3	50.6
117.5°	0.9	8.7	23.6	35.8	47.1
120°	0.9	7.0	20.9	33.2	46.2
122.5°	0.9	5.2	18.3	31.4	48.0
125°	0.9	4.4	15.7	31.4	52.3
127.5°	0.9	3.5	13.1	34.9	60.2
130°	0.9	2.6	13.1	41.9	68.1
132.5°	0.9	1.7	13.1	46.2	65.4
135°	0.9	1.7	14.0	42.8	52.3
137.5°	0.9	1.7	14.0	33.2	37.5
140°	0.9	1.7	11.3	23.6	26.2
142.5°	0.9	1.7	7.9	16.6	17.4
145°	1.7	1.7	6.1	11.3	11.3
147.5°	1.7	1.7	4.4	7.9	7.9
150°	1.7	1.7	3.5	6.1	6.1
152.5°	1.7	1.7	2.6	5.2	4.4
155°	1.7	1.7	2.6	4.4	3.5
157.5°	1.7	1.7	1.7	3.5	2.6
160°	1.7	2.6	2.6	3.5	2.6
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)