

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: P234501

Luminaire Tested: **4WSNLED-LD4-36SL-F-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P234501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-169-11)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4WSNLED-LD4-36SL-F-UNV-L835-CD1-U
Description: 4FT WSNLED WRAPAROUND
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

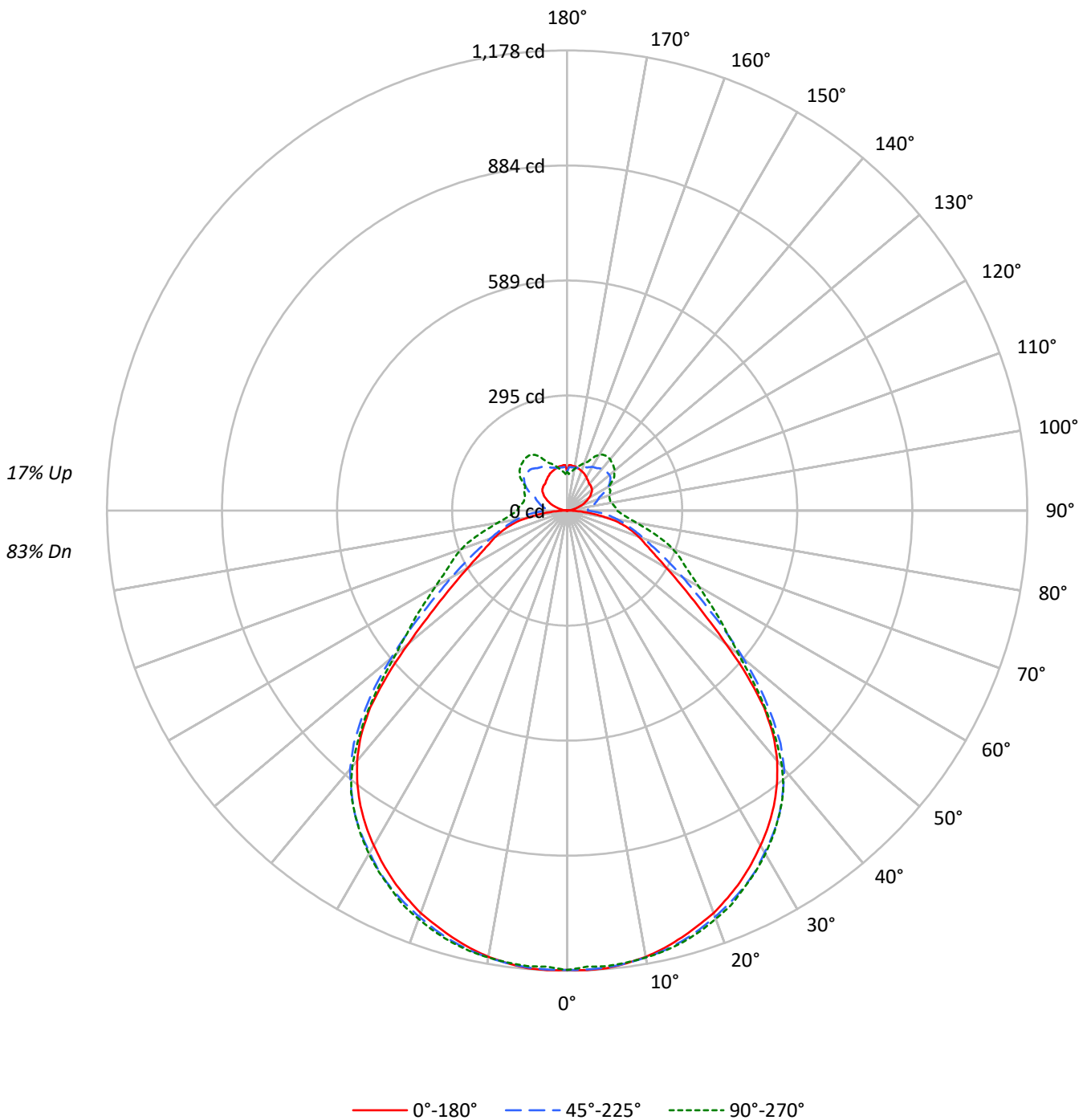
Lumens per Lamp: N/A
Luminaire Lumens: 3652.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 32.1
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: P234501

CATALOG NUMBER: 4WSNLED-LD4-36SL-F-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P234501

CATALOG NUMBER: 4WSNLED-LD4-36SL-F-UNV-L835-CD1-U

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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	83
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	69
2	96	88	82	76	92	85	79	74	78	74	70	73	69	65	67	64	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	81	69	61	55	77	67	59	53	62	56	51	58	53	48	54	50	46	43
5	74	62	54	47	71	60	52	46	56	49	44	52	47	42	49	44	40	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	44	40	36	33
7	64	51	43	37	61	49	42	36	46	40	35	43	38	33	41	36	32	30
8	59	47	38	33	57	45	38	32	42	36	31	40	34	30	38	32	29	27
9	56	43	35	30	53	41	34	29	39	33	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	29	25	32	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3164	3164	3164
5°	3168	3141	3128
10°	3152	3114	3106
15°	3127	3086	3084
20°	3104	3047	3046
25°	3069	3011	2996
30°	3022	2954	2942
35°	2967	2890	2863
40°	2863	2780	2721
45°	2630	2533	2435
50°	2141	2178	2087
55°	1739	1806	1879
60°	1498	1542	1721
65°	1393	1365	1669
70°	1409	1260	1688
75°	1432	1224	1642
80°	1327	1246	1636
85°	965	1303	1866



TEST NUMBER: P234501

CATALOG NUMBER: 4WSNLED-LD4-36SL-F-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	3.1
10°-20°	321.2	8.8
20°-30°	488.7	13.4
30°-40°	586.1	16.0
40°-50°	557.9	15.3
50°-60°	397.3	10.9
60°-70°	270.1	7.4
70°-80°	182.2	5.0
80°-90°	104.5	2.9
90°-100°	67.5	1.8
100°-110°	76.0	2.1
110°-120°	94.4	2.6
120°-130°	108.3	3.0
130°-140°	102.9	2.8
140°-150°	83.3	2.3
150°-160°	57.4	1.6
160°-170°	32.3	0.9
170°-180°	10.4	0.3
0°-30°	921.5	25.2
0°-40°	1507.6	41.3
0°-60°	2462.9	67.4
0°-90°	3019.7	82.7
90°-120°	237.8	6.5
90°-150°	532.3	14.6
90°-180°	632.0	17.3
0°-180°	3652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1176	1169	1174	1172	1171	112
15°	1132	1130	1140	1146	1144	319
25°	1049	1050	1066	1070	1068	483
35°	923	928	948	948	948	576
45°	713	730	739	739	720	539
55°	387	426	446	449	472	354
65°	233	249	265	281	332	235
75°	154	129	166	198	232	160
85°	42	60	96	133	147	47
90°	0	26	53	101	127	3
95°	4	25	55	103	122	5
105°	25	37	74	103	113	26
115°	51	81	101	113	122	51
125°	74	99	134	145	147	67
135°	87	104	142	163	166	67
145°	94	104	133	163	172	58
155°	104	106	122	142	145	48
165°	111	111	113	115	118	31
175°	117	117	111	97	99	11
180°	99	99	99	99	99	



TEST NUMBER: P234501

CATALOG NUMBER: 4WSNLED-LD4-36SL-F-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.9	1175.9	1175.9	1175.9	1175.9
2.5°	1177.6	1172.3	1175.9	1175.9	1168.8
5°	1175.9	1168.8	1174.1	1172.3	1170.6
7.5°	1168.8	1163.5	1168.8	1170.6	1167.0
10°	1160.0	1154.7	1161.7	1163.5	1161.7
12.5°	1147.6	1144.1	1152.9	1156.4	1154.7
15°	1131.7	1129.9	1140.5	1145.8	1144.1
17.5°	1114.0	1112.2	1124.6	1131.7	1129.9
20°	1096.3	1094.5	1106.9	1112.2	1112.2
22.5°	1073.3	1073.3	1087.5	1092.8	1094.5
25°	1048.6	1050.3	1066.3	1069.8	1068.0
27.5°	1020.3	1022.0	1041.5	1043.3	1043.3
30°	990.2	993.8	1011.4	1013.2	1015.0
32.5°	958.4	961.9	981.4	981.4	983.1
35°	923.0	928.3	947.8	947.8	947.8
37.5°	882.4	889.4	907.1	907.1	908.9
40°	836.4	847.0	864.7	862.9	855.8
42.5°	781.6	795.7	808.1	806.3	790.4
45°	712.6	730.3	739.1	739.1	719.7
47.5°	624.2	650.7	666.6	659.6	643.6
50°	530.5	569.4	588.8	585.3	572.9
52.5°	450.9	495.1	514.6	512.8	516.3
55°	387.2	426.1	445.6	449.1	472.1
57.5°	336.0	371.3	387.2	397.9	426.1
60°	293.5	325.4	341.3	351.9	389.0
62.5°	259.9	284.7	300.6	313.0	357.2
65°	233.4	249.3	265.2	281.2	332.4
67.5°	212.2	215.7	233.4	256.4	311.2
70°	194.5	182.1	208.7	235.2	288.2
72.5°	175.1	153.8	187.4	214.0	261.7
75°	153.8	129.1	166.2	198.0	231.6
77.5°	130.8	107.9	148.5	180.4	203.3
80°	100.8	91.9	130.8	164.4	180.4
82.5°	70.7	76.0	113.2	150.3	160.9
85°	42.4	60.1	95.5	132.6	146.8
87.5°	19.5	44.2	72.5	114.9	136.2
90°	0.0	26.5	53.0	100.8	127.3
92.5°	1.8	26.5	53.0	102.6	125.5
95°	3.5	24.8	54.8	102.6	122.0
97.5°	7.1	24.8	60.1	100.8	118.5
100°	12.4	26.5	65.4	100.8	114.9
102.5°	17.7	28.3	70.7	102.6	113.2
105°	24.8	37.1	74.3	102.6	113.2
107.5°	31.8	49.5	79.6	104.3	113.2
110°	38.9	63.7	84.9	106.1	114.9



TEST NUMBER: P234501

CATALOG NUMBER: 4WSNLED-LD4-36SL-F-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.0	74.3	88.4	111.4	118.5
115°	51.3	81.3	100.8	113.2	122.0
117.5°	58.4	86.6	113.2	114.9	122.0
120°	63.7	91.9	122.0	122.0	123.8
122.5°	70.7	95.5	129.1	136.2	134.4
125°	74.3	99.0	134.4	145.0	146.8
127.5°	79.6	100.8	139.7	150.3	152.1
130°	83.1	102.6	141.5	155.6	159.1
132.5°	84.9	102.6	141.5	159.1	162.7
135°	86.6	104.3	141.5	162.7	166.2
137.5°	88.4	102.6	141.5	164.4	168.0
140°	88.4	102.6	139.7	164.4	171.5
142.5°	90.2	102.6	136.2	164.4	171.5
145°	93.7	104.3	132.6	162.7	171.5
147.5°	95.5	104.3	130.8	159.1	169.8
150°	99.0	104.3	129.1	153.8	164.4
152.5°	100.8	104.3	125.5	148.5	157.4
155°	104.3	106.1	122.0	141.5	145.0
157.5°	106.1	106.1	120.2	134.4	134.4
160°	107.9	107.9	116.7	127.3	129.1
162.5°	109.6	109.6	114.9	120.2	123.8
165°	111.4	111.4	113.2	114.9	118.5
167.5°	113.2	113.2	111.4	107.9	113.2
170°	114.9	114.9	111.4	102.6	107.9
172.5°	114.9	116.7	111.4	99.0	102.6
175°	116.7	116.7	111.4	97.3	99.0
177.5°	116.7	116.7	111.4	93.7	93.7
180°	99.0	99.0	99.0	99.0	99.0

(END OF REPORT)