

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: P235485

Luminaire Tested: **4WSNLED-LD4-36SL-F-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P235485
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-L830-CD1-U
Description: 4FT WSNLED WRAPAROUND
Light Source: (224) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

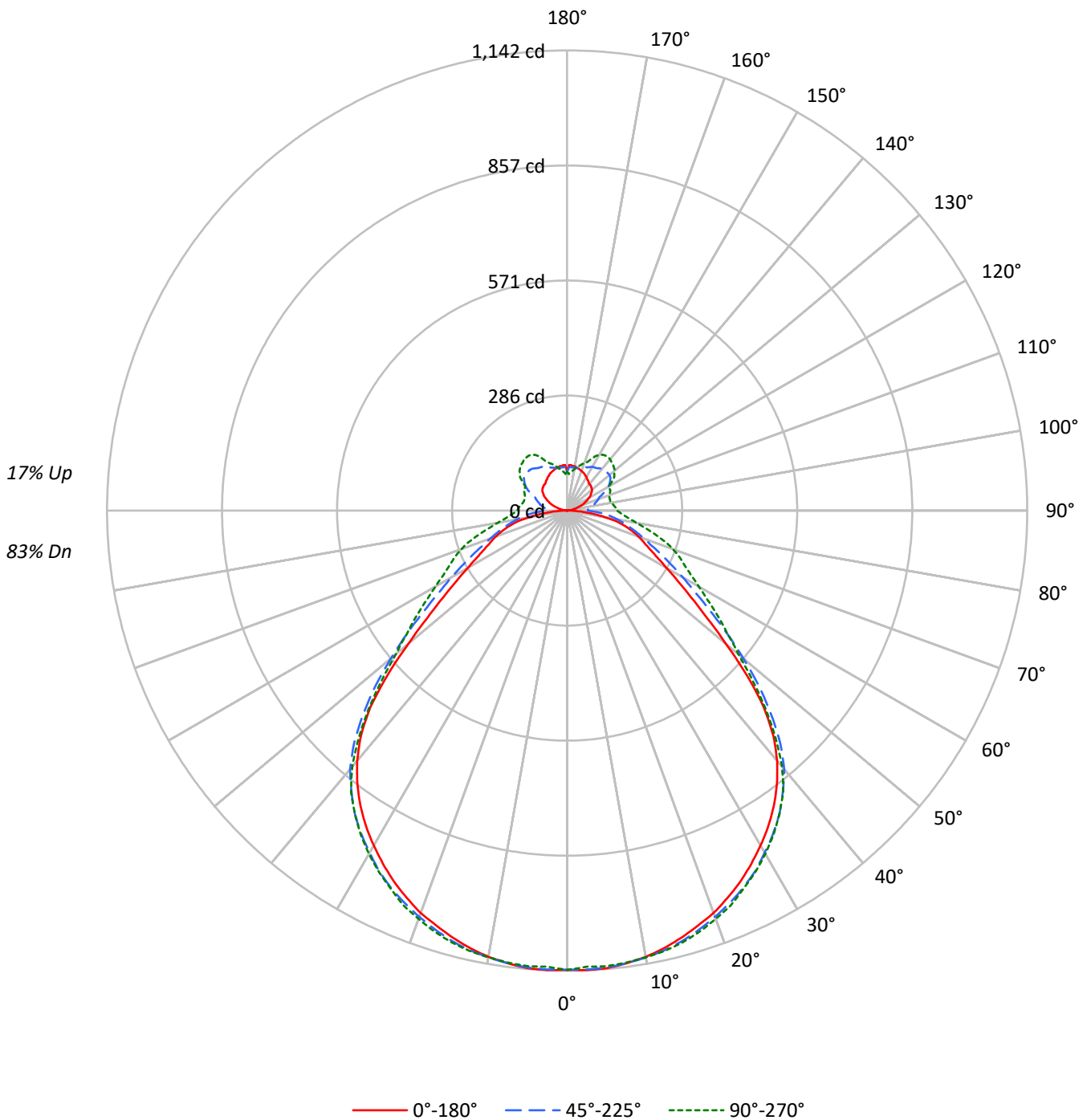
Lumens per Lamp: N/A
Luminaire Lumens: 3540.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	83
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	72	72	72	69
2	96	88	82	76	92	85	79	74	78	74	70	73	69	65	67	64	62	62	62	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	53	53	53	50
4	81	69	61	55	77	67	59	53	62	56	51	58	53	48	54	50	46	46	46	46	43
5	74	62	54	47	71	60	52	46	56	49	44	52	47	42	49	44	40	40	40	40	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	44	40	36	36	36	36	33
7	64	51	43	37	61	49	42	36	46	40	35	43	38	33	41	36	32	32	32	32	30
8	59	47	38	33	57	45	38	32	42	36	31	40	34	30	38	32	29	29	29	29	27
9	56	43	35	30	53	41	34	29	39	33	28	37	31	27	35	30	26	26	26	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	29	25	32	27	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3067	3067	3067
5°	3070	3045	3032
10°	3056	3018	3011
15°	3031	2991	2989
20°	3009	2954	2953
25°	2975	2919	2905
30°	2930	2864	2851
35°	2876	2801	2775
40°	2775	2695	2638
45°	2549	2455	2360
50°	2075	2112	2023
55°	1686	1750	1822
60°	1453	1494	1668
65°	1350	1323	1618
70°	1366	1221	1636
75°	1388	1186	1592
80°	1286	1208	1585
85°	935	1263	1809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	3.1
10°-20°	311.4	8.8
20°-30°	473.7	13.4
30°-40°	568.1	16.0
40°-50°	540.8	15.3
50°-60°	385.1	10.9
60°-70°	261.8	7.4
70°-80°	176.6	5.0
80°-90°	101.3	2.9
90°-100°	65.4	1.8
100°-110°	73.6	2.1
110°-120°	91.5	2.6
120°-130°	104.9	3.0
130°-140°	99.8	2.8
140°-150°	80.8	2.3
150°-160°	55.6	1.6
160°-170°	31.3	0.9
170°-180°	10.0	0.3
0°-30°	893.2	25.2
0°-40°	1461.4	41.3
0°-60°	2387.4	67.4
0°-90°	2927.1	82.7
90°-120°	230.5	6.5
90°-150°	516.0	14.6
90°-180°	613.0	17.3
0°-180°	3540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1140	1133	1138	1136	1135	108
15°	1097	1095	1106	1111	1109	310
25°	1016	1018	1034	1037	1035	468
35°	895	900	919	919	919	558
45°	691	708	716	716	698	523
55°	375	413	432	435	458	343
65°	226	242	257	272	322	228
75°	149	125	161	192	224	155
85°	41	58	93	129	142	46
90°	0	26	51	98	123	3
95°	3	24	53	99	118	5
105°	24	36	72	99	110	26
115°	50	79	98	110	118	50
125°	72	96	130	140	142	65
135°	84	101	137	158	161	65
145°	91	101	129	158	166	57
155°	101	103	118	137	140	46
165°	108	108	110	111	115	31
175°	113	113	108	94	96	11
180°	96	96	96	96	96	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1139.8	1139.8	1139.8	1139.8	1139.8
2.5°	1141.5	1136.4	1139.8	1139.8	1133.0
5°	1139.8	1133.0	1138.1	1136.4	1134.7
7.5°	1133.0	1127.8	1133.0	1134.7	1131.2
10°	1124.4	1119.3	1126.1	1127.8	1126.1
12.5°	1112.4	1109.0	1117.5	1121.0	1119.3
15°	1097.0	1095.3	1105.5	1110.7	1109.0
17.5°	1079.8	1078.1	1090.1	1097.0	1095.3
20°	1062.7	1061.0	1073.0	1078.1	1078.1
22.5°	1040.4	1040.4	1054.1	1059.3	1061.0
25°	1016.4	1018.1	1033.6	1037.0	1035.3
27.5°	989.0	990.7	1009.6	1011.3	1011.3
30°	959.8	963.3	980.4	982.1	983.8
32.5°	929.0	932.4	951.3	951.3	953.0
35°	894.7	899.9	918.7	918.7	918.7
37.5°	855.3	862.1	879.3	879.3	881.0
40°	810.7	821.0	838.2	836.4	829.6
42.5°	757.6	771.3	783.3	781.6	766.2
45°	690.7	707.9	716.5	716.5	697.6
47.5°	605.0	630.8	646.2	639.3	623.9
50°	514.2	551.9	570.8	567.3	555.3
52.5°	437.1	479.9	498.8	497.1	500.5
55°	375.4	413.1	431.9	435.4	457.6
57.5°	325.7	359.9	375.4	385.7	413.1
60°	284.5	315.4	330.8	341.1	377.1
62.5°	252.0	276.0	291.4	303.4	346.2
65°	226.2	241.7	257.1	272.5	322.2
67.5°	205.7	209.1	226.2	248.5	301.7
70°	188.5	176.5	202.3	228.0	279.4
72.5°	169.7	149.1	181.7	207.4	253.7
75°	149.1	125.1	161.1	192.0	224.5
77.5°	126.8	104.6	144.0	174.8	197.1
80°	97.7	89.1	126.8	159.4	174.8
82.5°	68.6	73.7	109.7	145.7	156.0
85°	41.1	58.3	92.6	128.6	142.3
87.5°	18.9	42.9	70.3	111.4	132.0
90°	0.0	25.7	51.4	97.7	123.4
92.5°	1.7	25.7	51.4	99.4	121.7
95°	3.4	24.0	53.1	99.4	118.3
97.5°	6.9	24.0	58.3	97.7	114.8
100°	12.0	25.7	63.4	97.7	111.4
102.5°	17.1	27.4	68.6	99.4	109.7
105°	24.0	36.0	72.0	99.4	109.7
107.5°	30.9	48.0	77.1	101.1	109.7
110°	37.7	61.7	82.3	102.8	111.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	44.6	72.0	85.7	108.0	114.8
115°	49.7	78.8	97.7	109.7	118.3
117.5°	56.6	84.0	109.7	111.4	118.3
120°	61.7	89.1	118.3	118.3	120.0
122.5°	68.6	92.6	125.1	132.0	130.3
125°	72.0	96.0	130.3	140.5	142.3
127.5°	77.1	97.7	135.4	145.7	147.4
130°	80.6	99.4	137.1	150.8	154.3
132.5°	82.3	99.4	137.1	154.3	157.7
135°	84.0	101.1	137.1	157.7	161.1
137.5°	85.7	99.4	137.1	159.4	162.8
140°	85.7	99.4	135.4	159.4	166.3
142.5°	87.4	99.4	132.0	159.4	166.3
145°	90.8	101.1	128.6	157.7	166.3
147.5°	92.6	101.1	126.8	154.3	164.5
150°	96.0	101.1	125.1	149.1	159.4
152.5°	97.7	101.1	121.7	144.0	152.5
155°	101.1	102.8	118.3	137.1	140.5
157.5°	102.8	102.8	116.6	130.3	130.3
160°	104.6	104.6	113.1	123.4	125.1
162.5°	106.3	106.3	111.4	116.6	120.0
165°	108.0	108.0	109.7	111.4	114.8
167.5°	109.7	109.7	108.0	104.6	109.7
170°	111.4	111.4	108.0	99.4	104.6
172.5°	111.4	113.1	108.0	96.0	99.4
175°	113.1	113.1	108.0	94.3	96.0
177.5°	113.1	113.1	108.0	90.8	90.8
180°	96.0	96.0	96.0	96.0	96.0

(END OF REPORT)