

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: P235494

Luminaire Tested: **2WSNLED-LD4-24SL-F-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P235494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-169-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2WSNLED-LD4-24SL-F-UNV-L830-CD1-U
Description: 2FT WSNLED WRAPAROUND
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

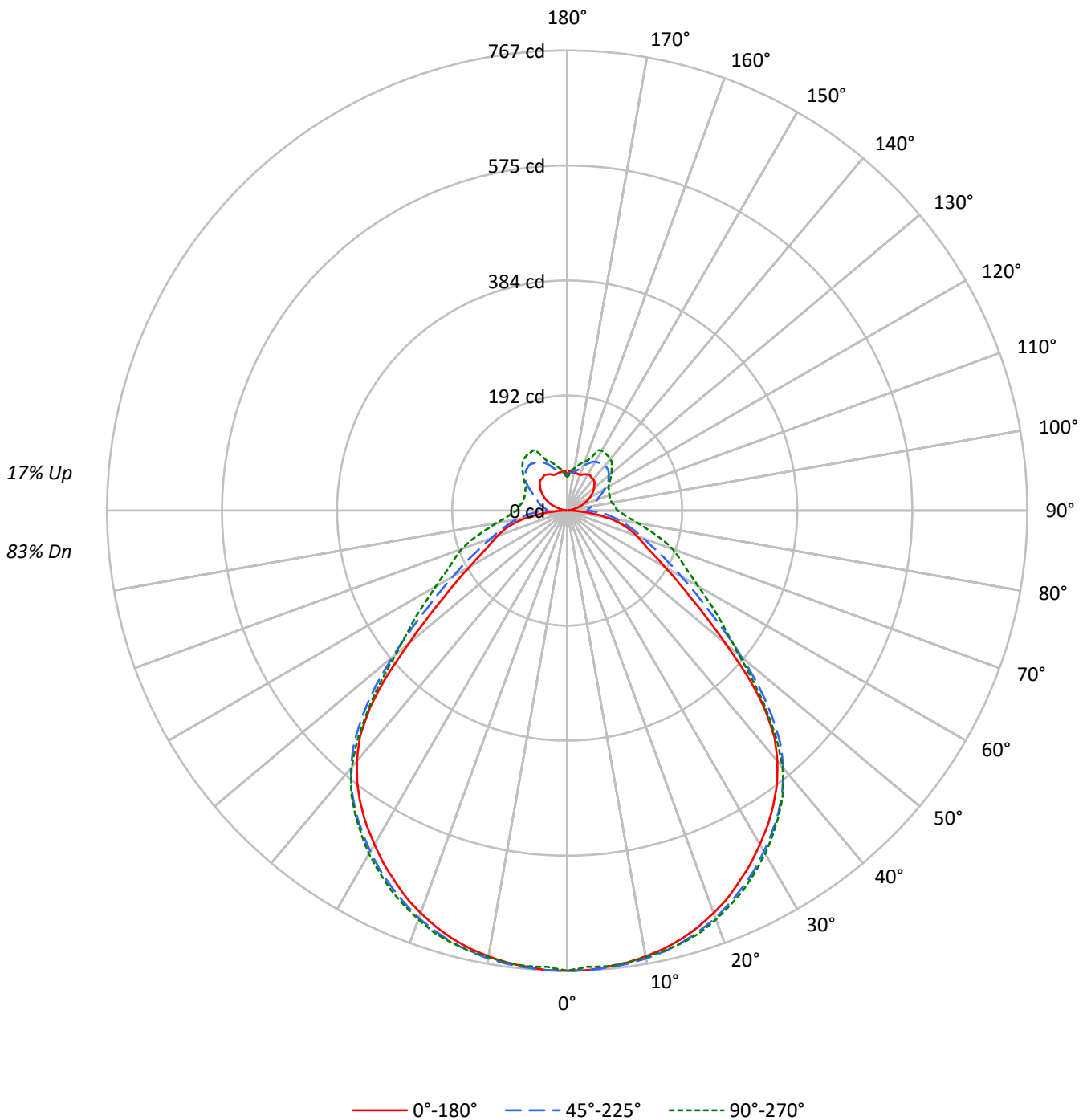
Lumens per Lamp: N/A
Luminaire Lumens: 2383.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 23.9
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	
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	92	89	89	86	83	82	80	78	76	74	72	69
2	96	88	81	76	92	85	79	74	78	74	69	72	69	65	67	64	61	58
3	88	78	70	64	84	75	68	62	70	64	59	64	60	56	60	56	53	50
4	81	69	61	55	77	67	59	53	62	56	51	58	53	48	54	49	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	47	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	37	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°	4128	4128	4128
5°	4103	4084	4075
10°	4079	4048	4041
15°	4048	4005	4019
20°	3997	3950	3972
25°	3929	3872	3910
30°	3853	3787	3828
35°	3773	3692	3723
40°	3638	3546	3552
45°	3327	3236	3174
50°	2675	2745	2717
55°	2148	2252	2444
60°	1827	1924	2236
65°	1654	1697	2150
70°	1659	1555	2189
75°	1681	1514	2137
80°	1556	1523	2158
85°	1063	1529	2476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	3.1
10°-20°	209.7	8.8
20°-30°	318.2	13.4
30°-40°	381.4	16.0
40°-50°	364.0	15.3
50°-60°	257.1	10.8
60°-70°	174.6	7.3
70°-80°	119.2	5.0
80°-90°	69.0	2.9
90°-100°	44.3	1.9
100°-110°	49.4	2.1
110°-120°	59.5	2.5
120°-130°	68.1	2.9
130°-140°	69.8	2.9
140°-150°	59.3	2.5
150°-160°	39.9	1.7
160°-170°	20.5	0.9
170°-180°	6.1	0.3
0°-30°	600.7	25.2
0°-40°	982.1	41.2
0°-60°	1603.3	67.3
0°-90°	1966.1	82.5
90°-120°	153.2	6.4
90°-150°	350.4	14.7
90°-180°	417.0	17.5
0°-180°	2383.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	764	765	765	764	762	73
15°	739	741	744	746	746	208
25°	681	686	692	696	697	314
35°	599	605	614	616	616	374
45°	464	479	482	484	469	351
55°	249	273	286	293	307	228
65°	147	161	171	184	214	149
75°	100	84	109	130	151	104
85°	30	40	62	88	97	32
90°	1	17	35	67	84	2
95°	2	17	36	67	80	3
105°	16	24	49	68	75	17
115°	35	51	62	71	77	35
125°	52	66	84	86	87	46
135°	65	77	96	105	105	49
145°	69	79	96	111	114	43
155°	67	72	87	101	100	31
165°	63	66	70	78	79	18
175°	66	67	62	59	66	6
180°	57	57	57	57	57	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.0	767.0	767.0	767.0	767.0
2.5°	767.0	767.0	767.0	764.8	761.4
5°	763.6	764.8	764.8	763.6	762.5
7.5°	760.2	761.4	762.5	761.4	760.2
10°	754.6	756.8	758.0	758.0	755.7
12.5°	747.8	750.0	752.3	752.3	751.2
15°	738.7	741.0	744.4	745.5	745.5
17.5°	727.4	729.6	734.2	737.6	737.6
20°	713.8	717.2	722.9	725.1	725.1
22.5°	699.1	702.5	708.1	710.4	711.5
25°	680.9	685.5	692.3	695.7	696.8
27.5°	662.8	668.5	675.3	678.7	678.7
30°	642.4	649.2	656.0	659.4	660.5
32.5°	622.0	627.7	635.6	639.0	639.0
35°	599.4	605.0	614.1	616.3	616.3
37.5°	574.4	581.2	589.2	592.6	591.4
40°	545.0	552.9	560.8	563.1	558.6
42.5°	511.0	520.0	525.7	528.0	516.6
45°	464.5	479.3	481.5	483.8	469.1
47.5°	406.7	426.0	432.8	431.7	420.3
50°	343.3	370.5	379.6	380.7	372.8
52.5°	292.3	319.5	330.8	335.4	336.5
55°	249.3	273.1	285.5	293.4	307.0
57.5°	216.4	237.9	250.4	259.5	277.6
60°	188.1	208.5	219.8	230.0	252.7
62.5°	165.4	183.5	193.7	203.9	231.1
65°	147.3	160.9	171.1	183.5	214.1
67.5°	134.8	140.5	150.7	167.7	200.5
70°	123.5	120.1	134.8	153.0	186.9
72.5°	112.2	102.0	121.2	140.5	169.9
75°	99.7	83.8	108.8	130.3	150.7
77.5°	85.0	71.4	97.4	119.0	133.7
80°	68.0	60.0	86.1	108.8	119.0
82.5°	48.7	49.9	73.6	98.6	106.5
85°	29.5	39.7	62.3	88.4	97.4
87.5°	13.6	28.3	47.6	75.9	90.6
90°	1.1	17.0	35.1	66.8	83.8
92.5°	1.1	17.0	34.0	66.8	81.6
95°	2.3	17.0	36.3	66.8	80.4
97.5°	4.5	17.0	38.5	66.8	78.2
100°	7.9	17.0	43.1	66.8	75.9
102.5°	11.3	19.3	46.5	68.0	74.8
105°	15.9	23.8	48.7	68.0	74.8
107.5°	20.4	29.5	51.0	68.0	74.8
110°	26.1	37.4	53.3	69.1	74.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	30.6	45.3	56.6	70.2	75.9
115°	35.1	51.0	62.3	71.4	77.0
117.5°	39.7	54.4	66.8	73.6	78.2
120°	44.2	58.9	72.5	77.0	79.3
122.5°	47.6	62.3	78.2	81.6	83.8
125°	52.1	65.7	83.8	86.1	87.2
127.5°	55.5	69.1	87.2	91.8	91.8
130°	58.9	71.4	90.6	96.3	96.3
132.5°	61.2	74.8	94.0	100.8	100.8
135°	64.6	77.0	96.3	105.4	105.4
137.5°	66.8	79.3	97.4	107.6	109.9
140°	68.0	79.3	98.6	109.9	112.2
142.5°	68.0	80.4	98.6	111.0	113.3
145°	69.1	79.3	96.3	111.0	114.4
147.5°	70.2	78.2	95.2	111.0	114.4
150°	69.1	77.0	94.0	107.6	115.6
152.5°	68.0	74.8	91.8	103.1	113.3
155°	66.8	72.5	87.2	100.8	99.7
157.5°	64.6	70.2	83.8	95.2	90.6
160°	63.4	68.0	78.2	90.6	87.2
162.5°	63.4	65.7	73.6	85.0	83.8
165°	63.4	65.7	70.2	78.2	79.3
167.5°	64.6	65.7	68.0	70.2	74.8
170°	64.6	65.7	65.7	65.7	71.4
172.5°	65.7	66.8	63.4	61.2	69.1
175°	65.7	66.8	62.3	58.9	65.7
177.5°	65.7	65.7	61.2	56.6	57.8
180°	56.6	56.6	56.6	56.6	56.6

(END OF REPORT)