

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: P234479

Luminaire Tested: **2WSNLED-LD4-24SL-F-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P234479
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-L850-CD1-U
Description: 2FT WSNLED WRAPAROUND
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

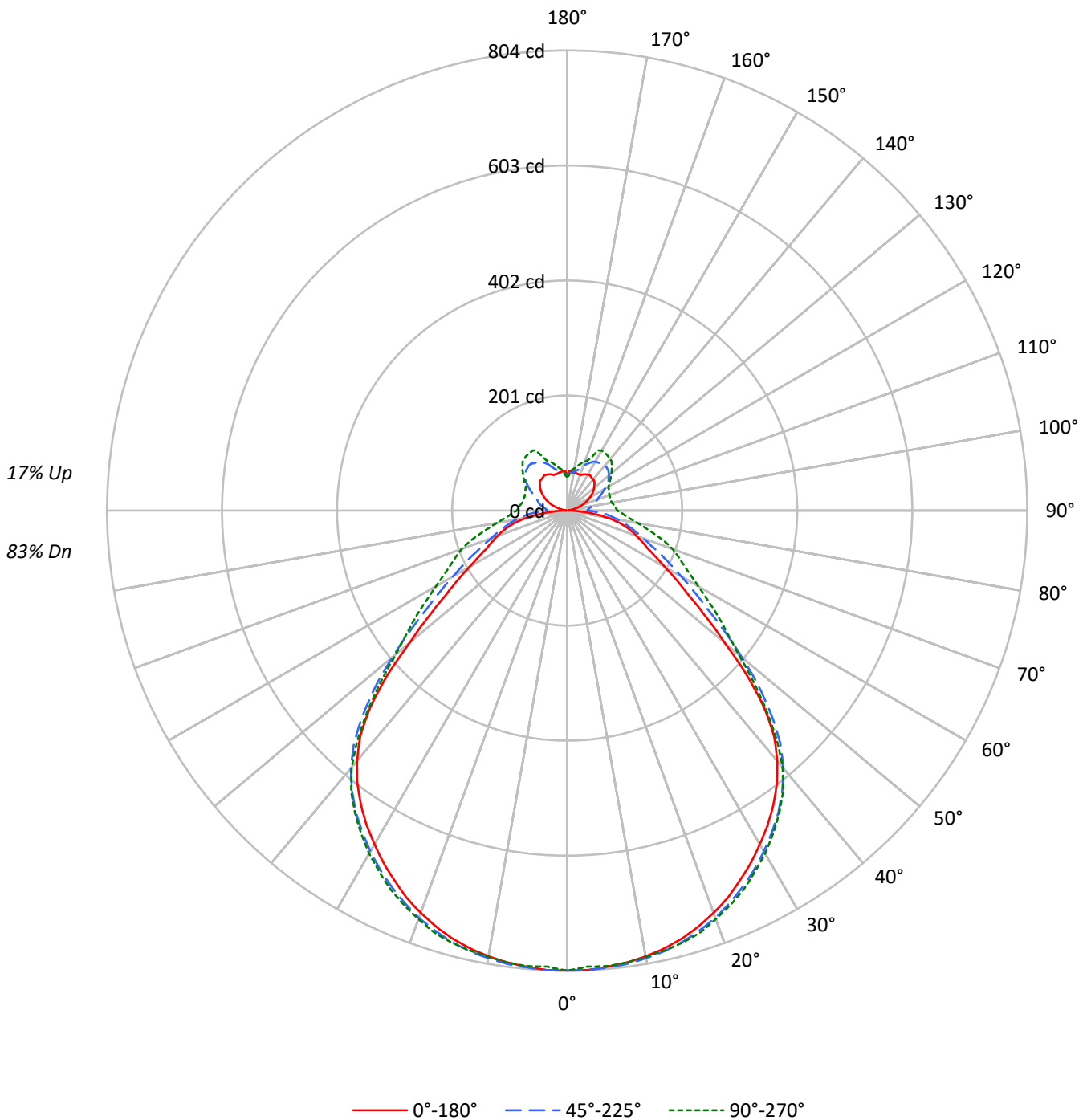
Lumens per Lamp: N/A
Luminaire Lumens: 2497.0 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

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°	4325	4325	4325
5°	4300	4280	4270
10°	4274	4241	4234
15°	4242	4197	4212
20°	4188	4138	4162
25°	4117	4057	4097
30°	4037	3968	4012
35°	3953	3869	3902
40°	3812	3716	3722
45°	3487	3391	3325
50°	2803	2876	2846
55°	2250	2360	2561
60°	1914	2016	2342
65°	1733	1778	2254
70°	1738	1630	2295
75°	1762	1586	2239
80°	1629	1596	2262
85°	1113	1603	2596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	3.1
10°-20°	219.8	8.8
20°-30°	333.5	13.4
30°-40°	399.7	16.0
40°-50°	381.4	15.3
50°-60°	269.4	10.8
60°-70°	183.0	7.3
70°-80°	124.9	5.0
80°-90°	72.3	2.9
90°-100°	46.4	1.9
100°-110°	51.8	2.1
110°-120°	62.3	2.5
120°-130°	71.4	2.9
130°-140°	73.1	2.9
140°-150°	62.1	2.5
150°-160°	41.8	1.7
160°-170°	21.5	0.9
170°-180°	6.4	0.3
0°-30°	629.4	25.2
0°-40°	1029.1	41.2
0°-60°	1680.0	67.3
0°-90°	2060.1	82.5
90°-120°	160.5	6.4
90°-150°	367.2	14.7
90°-180°	437.0	17.5
0°-180°	2497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	800	801	801	800	799	76
15°	774	776	780	781	781	218
25°	714	718	725	729	730	329
35°	628	634	644	646	646	392
45°	487	502	505	507	492	368
55°	261	286	299	308	322	239
65°	154	169	179	192	224	156
75°	104	88	114	136	158	109
85°	31	42	65	93	102	34
90°	1	18	37	70	88	2
95°	2	18	38	70	84	3
105°	17	25	51	71	78	18
115°	37	53	65	75	81	36
125°	55	69	88	90	91	48
135°	68	81	101	110	110	52
145°	72	83	101	116	120	45
155°	70	76	91	106	104	32
165°	66	69	74	82	83	19
175°	69	70	65	62	69	7
180°	59	59	59	59	59	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	803.7	803.7	803.7	803.7	803.7
2.5°	803.7	803.7	803.7	801.4	797.8
5°	800.2	801.4	801.4	800.2	799.0
7.5°	796.6	797.8	799.0	797.8	796.6
10°	790.7	793.0	794.2	794.2	791.9
12.5°	783.6	785.9	788.3	788.3	787.1
15°	774.1	776.4	780.0	781.2	781.2
17.5°	762.2	764.6	769.3	772.9	772.9
20°	747.9	751.5	757.4	759.8	759.8
22.5°	732.5	736.1	742.0	744.4	745.6
25°	713.5	718.3	725.4	728.9	730.1
27.5°	694.5	700.4	707.6	711.1	711.1
30°	673.1	680.3	687.4	690.9	692.1
32.5°	651.8	657.7	666.0	669.6	669.6
35°	628.0	634.0	643.5	645.8	645.8
37.5°	601.9	609.0	617.3	620.9	619.7
40°	571.0	579.4	587.7	590.0	585.3
42.5°	535.4	544.9	550.9	553.2	541.4
45°	486.8	502.2	504.6	506.9	491.5
47.5°	426.2	446.4	453.5	452.3	440.5
50°	359.7	388.2	397.7	398.9	390.6
52.5°	306.3	334.8	346.7	351.4	352.6
55°	261.2	286.1	299.2	307.5	321.7
57.5°	226.8	249.3	262.4	271.9	290.9
60°	197.1	218.4	230.3	241.0	264.7
62.5°	173.3	192.3	203.0	213.7	242.2
65°	154.3	168.6	179.3	192.3	224.4
67.5°	141.3	147.2	157.9	175.7	210.1
70°	129.4	125.8	141.3	160.3	195.9
72.5°	117.5	106.8	127.0	147.2	178.1
75°	104.5	87.9	114.0	136.5	157.9
77.5°	89.0	74.8	102.1	124.7	140.1
80°	71.2	62.9	90.2	114.0	124.7
82.5°	51.0	52.2	77.2	103.3	111.6
85°	30.9	41.6	65.3	92.6	102.1
87.5°	14.2	29.7	49.9	79.5	95.0
90°	1.2	17.8	36.8	70.0	87.9
92.5°	1.2	17.8	35.6	70.0	85.5
95°	2.4	17.8	38.0	70.0	84.3
97.5°	4.7	17.8	40.4	70.0	81.9
100°	8.3	17.8	45.1	70.0	79.5
102.5°	11.9	20.2	48.7	71.2	78.4
105°	16.6	24.9	51.0	71.2	78.4
107.5°	21.4	30.9	53.4	71.2	78.4
110°	27.3	39.2	55.8	72.4	78.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	32.1	47.5	59.4	73.6	79.5
115°	36.8	53.4	65.3	74.8	80.7
117.5°	41.6	57.0	70.0	77.2	81.9
120°	46.3	61.7	76.0	80.7	83.1
122.5°	49.9	65.3	81.9	85.5	87.9
125°	54.6	68.9	87.9	90.2	91.4
127.5°	58.2	72.4	91.4	96.2	96.2
130°	61.7	74.8	95.0	100.9	100.9
132.5°	64.1	78.4	98.5	105.7	105.7
135°	67.7	80.7	100.9	110.4	110.4
137.5°	70.0	83.1	102.1	112.8	115.2
140°	71.2	83.1	103.3	115.2	117.5
142.5°	71.2	84.3	103.3	116.3	118.7
145°	72.4	83.1	100.9	116.3	119.9
147.5°	73.6	81.9	99.7	116.3	119.9
150°	72.4	80.7	98.5	112.8	121.1
152.5°	71.2	78.4	96.2	108.0	118.7
155°	70.0	76.0	91.4	105.7	104.5
157.5°	67.7	73.6	87.9	99.7	95.0
160°	66.5	71.2	81.9	95.0	91.4
162.5°	66.5	68.9	77.2	89.0	87.9
165°	66.5	68.9	73.6	81.9	83.1
167.5°	67.7	68.9	71.2	73.6	78.4
170°	67.7	68.9	68.9	68.9	74.8
172.5°	68.9	70.0	66.5	64.1	72.4
175°	68.9	70.0	65.3	61.7	68.9
177.5°	68.9	68.9	64.1	59.4	60.5
180°	59.4	59.4	59.4	59.4	59.4

(END OF REPORT)