

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: P234477

Luminaire Tested: **2WSNLED-LD4-24SL-F-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P234477
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-L835-CD1-U
Description: 2FT WSNLED WRAPAROUND
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

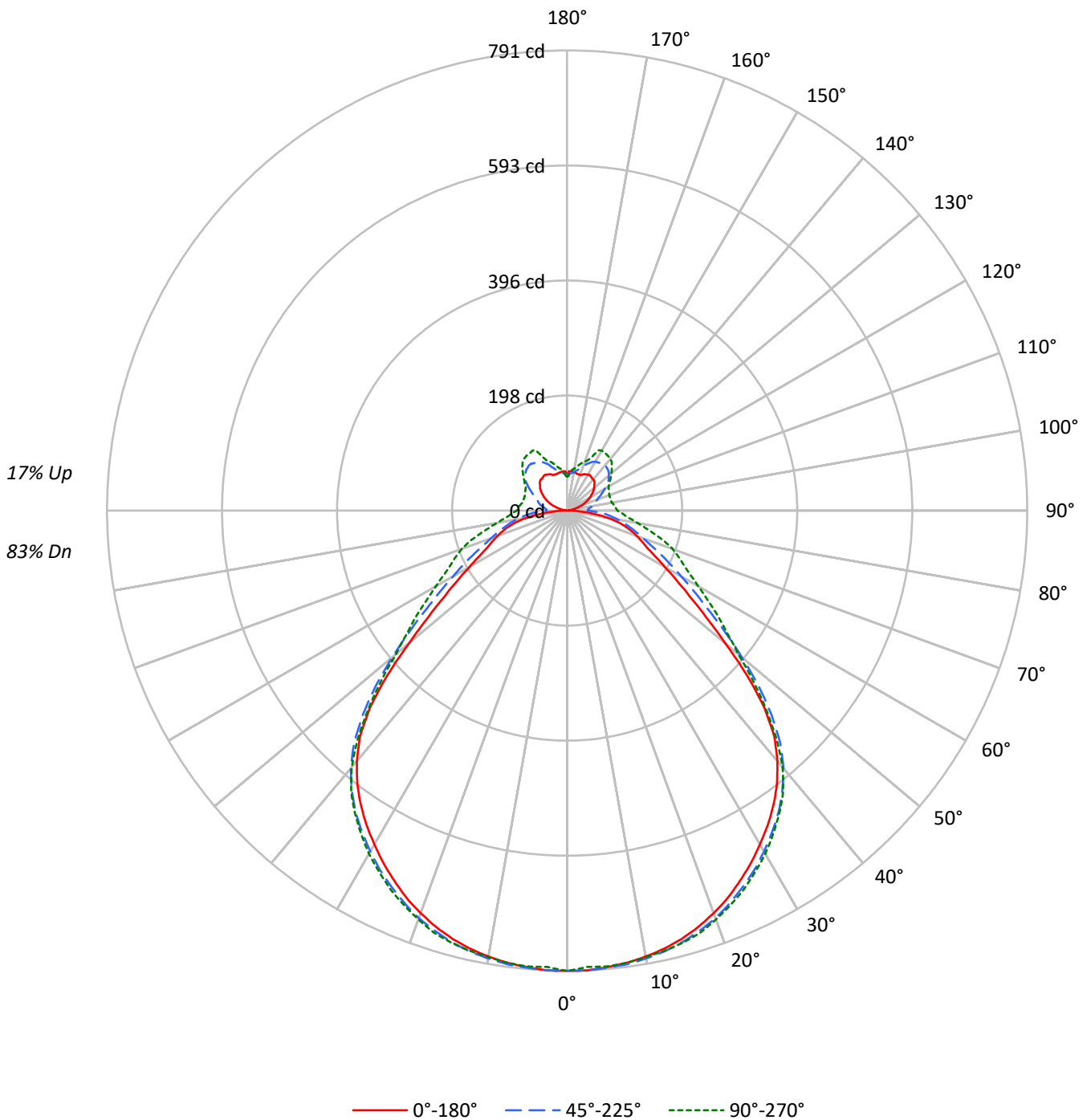
Lumens per Lamp: N/A
Luminaire Lumens: 2458.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

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°	4258	4258	4258
5°	4232	4213	4203
10°	4207	4175	4168
15°	4176	4131	4146
20°	4123	4074	4097
25°	4053	3993	4033
30°	3974	3906	3949
35°	3891	3808	3841
40°	3752	3657	3663
45°	3432	3338	3273
50°	2759	2831	2802
55°	2215	2323	2522
60°	1884	1984	2306
65°	1706	1750	2218
70°	1711	1604	2258
75°	1733	1561	2203
80°	1604	1571	2225
85°	1095	1578	2555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	3.1
10°-20°	216.3	8.8
20°-30°	328.3	13.4
30°-40°	393.4	16.0
40°-50°	375.5	15.3
50°-60°	265.2	10.8
60°-70°	180.1	7.3
70°-80°	122.9	5.0
80°-90°	71.2	2.9
90°-100°	45.7	1.9
100°-110°	51.0	2.1
110°-120°	61.4	2.5
120°-130°	70.3	2.9
130°-140°	72.0	2.9
140°-150°	61.2	2.5
150°-160°	41.2	1.7
160°-170°	21.1	0.9
170°-180°	6.3	0.3
0°-30°	619.6	25.2
0°-40°	1013.0	41.2
0°-60°	1653.7	67.3
0°-90°	2027.9	82.5
90°-120°	158.0	6.4
90°-150°	361.5	14.7
90°-180°	430.0	17.5
0°-180°	2458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	791	791	791	791	791	
5°	788	789	789	788	786	75
15°	762	764	768	769	769	215
25°	702	707	714	718	719	324
35°	618	624	633	636	636	386
45°	479	494	497	499	484	363
55°	257	282	294	303	317	235
65°	152	166	176	189	221	154
75°	103	86	112	134	155	107
85°	30	41	64	91	100	33
90°	1	18	36	69	86	2
95°	2	18	37	69	83	3
105°	16	24	50	70	77	18
115°	36	53	64	74	80	36
125°	54	68	86	89	90	48
135°	67	80	99	109	109	51
145°	71	82	99	114	118	45
155°	69	75	90	104	103	32
165°	65	68	72	81	82	19
175°	68	69	64	61	68	6
180°	58	58	58	58	58	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	791.2	791.2	791.2	791.2	791.2
2.5°	791.2	791.2	791.2	788.8	785.3
5°	787.7	788.8	788.8	787.7	786.5
7.5°	784.2	785.3	786.5	785.3	784.2
10°	778.3	780.7	781.8	781.8	779.5
12.5°	771.3	773.6	776.0	776.0	774.8
15°	762.0	764.3	767.8	769.0	769.0
17.5°	750.3	752.6	757.3	760.8	760.8
20°	736.3	739.8	745.6	747.9	747.9
22.5°	721.1	724.6	730.4	732.7	733.9
25°	702.4	707.0	714.0	717.6	718.7
27.5°	683.7	689.5	696.5	700.0	700.0
30°	662.6	669.6	676.7	680.2	681.3
32.5°	641.6	647.4	655.6	659.1	659.1
35°	618.2	624.1	633.4	635.7	635.7
37.5°	592.5	599.5	607.7	611.2	610.0
40°	562.1	570.3	578.5	580.8	576.1
42.5°	527.1	536.4	542.3	544.6	532.9
45°	479.1	494.3	496.7	499.0	483.8
47.5°	419.5	439.4	446.4	445.3	433.6
50°	354.1	382.2	391.5	392.7	384.5
52.5°	301.5	329.6	341.2	345.9	347.1
55°	257.1	281.6	294.5	302.7	316.7
57.5°	223.2	245.4	258.3	267.6	286.3
60°	194.0	215.0	226.7	237.2	260.6
62.5°	170.6	189.3	199.8	210.4	238.4
65°	151.9	165.9	176.5	189.3	220.9
67.5°	139.1	144.9	155.4	173.0	206.9
70°	127.4	123.9	139.1	157.8	192.8
72.5°	115.7	105.2	125.0	144.9	175.3
75°	102.8	86.5	112.2	134.4	155.4
77.5°	87.6	73.6	100.5	122.7	137.9
80°	70.1	61.9	88.8	112.2	122.7
82.5°	50.3	51.4	76.0	101.7	109.9
85°	30.4	40.9	64.3	91.2	100.5
87.5°	14.0	29.2	49.1	78.3	93.5
90°	1.2	17.5	36.2	69.0	86.5
92.5°	1.2	17.5	35.1	69.0	84.1
95°	2.3	17.5	37.4	69.0	83.0
97.5°	4.7	17.5	39.7	69.0	80.6
100°	8.2	17.5	44.4	69.0	78.3
102.5°	11.7	19.9	47.9	70.1	77.1
105°	16.4	24.5	50.3	70.1	77.1
107.5°	21.0	30.4	52.6	70.1	77.1
110°	26.9	38.6	54.9	71.3	77.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	31.6	46.7	58.4	72.5	78.3
115°	36.2	52.6	64.3	73.6	79.5
117.5°	40.9	56.1	69.0	76.0	80.6
120°	45.6	60.8	74.8	79.5	81.8
122.5°	49.1	64.3	80.6	84.1	86.5
125°	53.8	67.8	86.5	88.8	90.0
127.5°	57.3	71.3	90.0	94.7	94.7
130°	60.8	73.6	93.5	99.3	99.3
132.5°	63.1	77.1	97.0	104.0	104.0
135°	66.6	79.5	99.3	108.7	108.7
137.5°	69.0	81.8	100.5	111.0	113.4
140°	70.1	81.8	101.7	113.4	115.7
142.5°	70.1	83.0	101.7	114.5	116.9
145°	71.3	81.8	99.3	114.5	118.0
147.5°	72.5	80.6	98.2	114.5	118.0
150°	71.3	79.5	97.0	111.0	119.2
152.5°	70.1	77.1	94.7	106.3	116.9
155°	69.0	74.8	90.0	104.0	102.8
157.5°	66.6	72.5	86.5	98.2	93.5
160°	65.4	70.1	80.6	93.5	90.0
162.5°	65.4	67.8	76.0	87.6	86.5
165°	65.4	67.8	72.5	80.6	81.8
167.5°	66.6	67.8	70.1	72.5	77.1
170°	66.6	67.8	67.8	67.8	73.6
172.5°	67.8	69.0	65.4	63.1	71.3
175°	67.8	69.0	64.3	60.8	67.8
177.5°	67.8	67.8	63.1	58.4	59.6
180°	58.4	58.4	58.4	58.4	58.4

(END OF REPORT)