

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: P235495

Luminaire Tested: **2WSNLED-LD4-28SL-F-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P235495
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-LD4-28SL-F-UNV-L830-CD1-U
Description: 2FT WSNLED WRAPAROUND
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

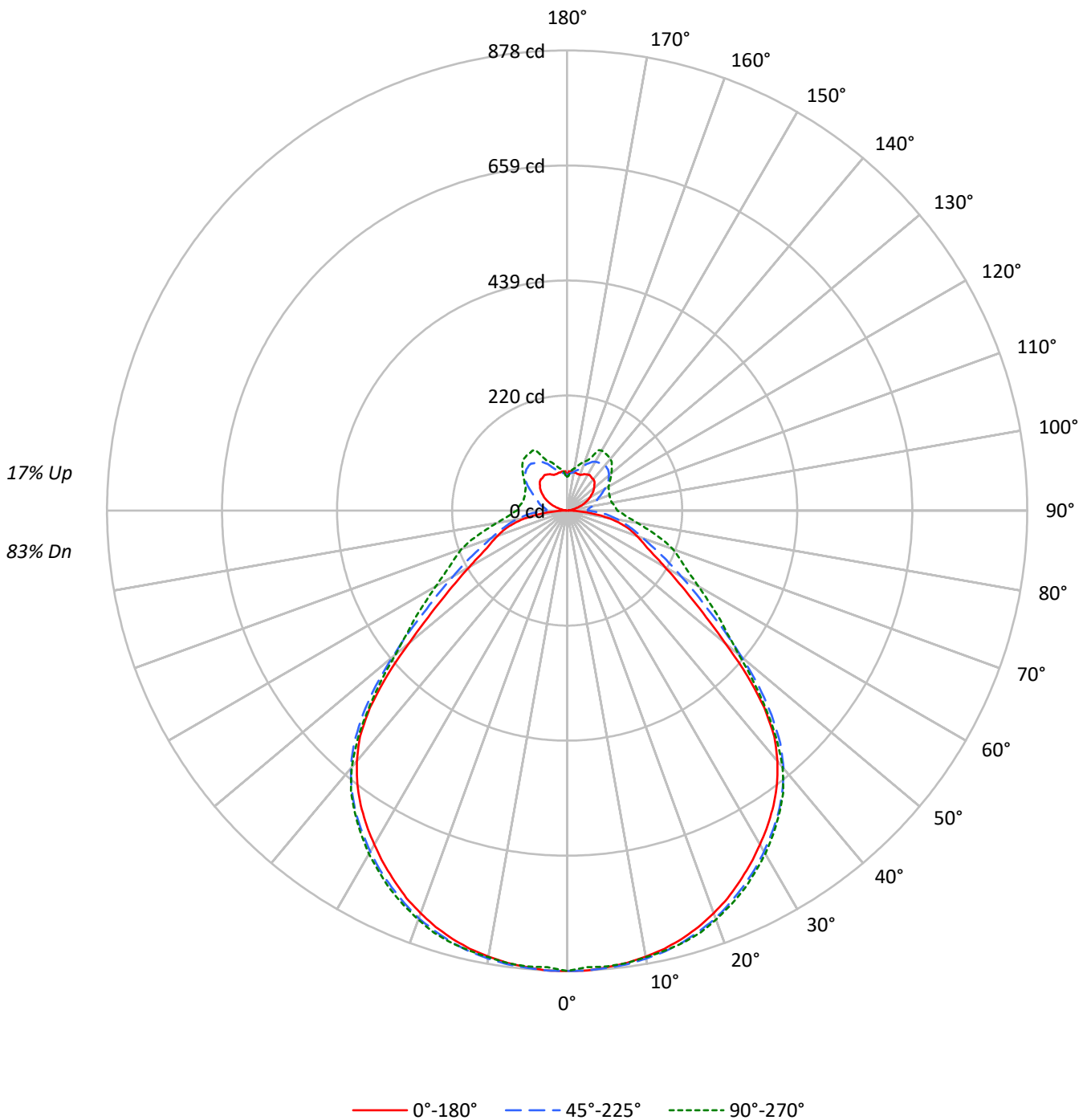
Lumens per Lamp: N/A
Luminaire Lumens: 2729.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 27.6
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: P235495

CATALOG NUMBER: 2WSNLED-LD4-28SL-F-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P235495

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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°	4728	4728	4728
5°	4699	4677	4666
10°	4671	4635	4627
15°	4636	4587	4603
20°	4577	4523	4549
25°	4500	4434	4478
30°	4413	4337	4384
35°	4321	4228	4264
40°	4166	4061	4068
45°	3811	3706	3634
50°	3063	3143	3111
55°	2459	2580	2799
60°	2092	2203	2560
65°	1894	1942	2462
70°	1899	1781	2508
75°	1926	1733	2447
80°	1783	1744	2470
85°	1214	1753	2837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	3.1
10°-20°	240.2	8.8
20°-30°	364.4	13.4
30°-40°	436.8	16.0
40°-50°	416.9	15.3
50°-60°	294.5	10.8
60°-70°	200.0	7.3
70°-80°	136.5	5.0
80°-90°	79.0	2.9
90°-100°	50.7	1.9
100°-110°	56.6	2.1
110°-120°	68.1	2.5
120°-130°	78.0	2.9
130°-140°	79.9	2.9
140°-150°	67.9	2.5
150°-160°	45.7	1.7
160°-170°	23.4	0.9
170°-180°	7.0	0.3
0°-30°	687.9	25.2
0°-40°	1124.7	41.2
0°-60°	1836.0	67.3
0°-90°	2251.5	82.5
90°-120°	175.4	6.4
90°-150°	401.3	14.7
90°-180°	478.0	17.5
0°-180°	2729.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	874	876	876	874	873	83
15°	846	849	852	854	854	239
25°	780	785	793	797	798	359
35°	686	693	703	706	706	428
45°	532	549	551	554	537	402
55°	286	313	327	336	352	261
65°	169	184	196	210	245	171
75°	114	96	125	149	173	119
85°	34	45	71	101	112	37
90°	1	20	40	77	96	3
95°	3	20	42	77	92	4
105°	18	27	56	78	86	20
115°	40	58	71	82	88	40
125°	60	75	96	99	100	53
135°	74	88	110	121	121	57
145°	79	91	110	127	131	50
155°	77	83	100	116	114	35
165°	73	75	80	90	91	21
175°	75	77	71	68	75	7
180°	65	65	65	65	65	



TEST NUMBER: P235495

CATALOG NUMBER: 2WSNLED-LD4-28SL-F-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	878.4	878.4	878.4	878.4	878.4
2.5°	878.4	878.4	878.4	875.8	871.9
5°	874.5	875.8	875.8	874.5	873.2
7.5°	870.6	871.9	873.2	871.9	870.6
10°	864.1	866.7	868.0	868.0	865.4
12.5°	856.4	858.9	861.5	861.5	860.2
15°	846.0	848.6	852.5	853.8	853.8
17.5°	833.0	835.6	840.8	844.7	844.7
20°	817.4	821.3	827.8	830.4	830.4
22.5°	800.6	804.5	810.9	813.5	814.8
25°	779.8	785.0	792.8	796.7	798.0
27.5°	759.0	765.5	773.3	777.2	777.2
30°	735.7	743.5	751.3	755.1	756.4
32.5°	712.3	718.8	727.9	731.8	731.8
35°	686.4	692.9	703.2	705.8	705.8
37.5°	657.8	665.6	674.7	678.6	677.3
40°	624.1	633.2	642.3	644.9	639.7
42.5°	585.2	595.6	602.0	604.6	591.7
45°	532.0	548.8	551.4	554.0	537.2
47.5°	465.8	487.9	495.6	494.3	481.4
50°	393.1	424.3	434.7	436.0	426.9
52.5°	334.8	365.9	378.9	384.1	385.4
55°	285.5	312.7	327.0	336.1	351.6
57.5°	247.8	272.5	286.7	297.1	317.9
60°	215.4	238.7	251.7	263.4	289.3
62.5°	189.4	210.2	221.9	233.6	264.7
65°	168.7	184.2	195.9	210.2	245.2
67.5°	154.4	160.9	172.6	192.0	229.7
70°	141.4	137.5	154.4	175.2	214.1
72.5°	128.5	116.8	138.8	160.9	194.6
75°	114.2	96.0	124.6	149.2	172.6
77.5°	97.3	81.7	111.6	136.2	153.1
80°	77.9	68.8	98.6	124.6	136.2
82.5°	55.8	57.1	84.3	112.9	122.0
85°	33.7	45.4	71.4	101.2	111.6
87.5°	15.6	32.4	54.5	86.9	103.8
90°	1.3	19.5	40.2	76.6	96.0
92.5°	1.3	19.5	38.9	76.6	93.4
95°	2.6	19.5	41.5	76.6	92.1
97.5°	5.2	19.5	44.1	76.6	89.5
100°	9.1	19.5	49.3	76.6	86.9
102.5°	13.0	22.1	53.2	77.9	85.6
105°	18.2	27.2	55.8	77.9	85.6
107.5°	23.4	33.7	58.4	77.9	85.6
110°	29.8	42.8	61.0	79.1	85.6



TEST NUMBER: P235495

CATALOG NUMBER: 2WSNLED-LD4-28SL-F-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	35.0	51.9	64.9	80.4	86.9
115°	40.2	58.4	71.4	81.7	88.2
117.5°	45.4	62.3	76.6	84.3	89.5
120°	50.6	67.5	83.0	88.2	90.8
122.5°	54.5	71.4	89.5	93.4	96.0
125°	59.7	75.3	96.0	98.6	99.9
127.5°	63.6	79.1	99.9	105.1	105.1
130°	67.5	81.7	103.8	110.3	110.3
132.5°	70.1	85.6	107.7	115.5	115.5
135°	74.0	88.2	110.3	120.7	120.7
137.5°	76.6	90.8	111.6	123.3	125.9
140°	77.9	90.8	112.9	125.9	128.5
142.5°	77.9	92.1	112.9	127.2	129.8
145°	79.1	90.8	110.3	127.2	131.0
147.5°	80.4	89.5	109.0	127.2	131.0
150°	79.1	88.2	107.7	123.3	132.3
152.5°	77.9	85.6	105.1	118.1	129.8
155°	76.6	83.0	99.9	115.5	114.2
157.5°	74.0	80.4	96.0	109.0	103.8
160°	72.7	77.9	89.5	103.8	99.9
162.5°	72.7	75.3	84.3	97.3	96.0
165°	72.7	75.3	80.4	89.5	90.8
167.5°	74.0	75.3	77.9	80.4	85.6
170°	74.0	75.3	75.3	75.3	81.7
172.5°	75.3	76.6	72.7	70.1	79.1
175°	75.3	76.6	71.4	67.5	75.3
177.5°	75.3	75.3	70.1	64.9	66.2
180°	64.9	64.9	64.9	64.9	64.9

(END OF REPORT)