

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: P234475

Luminaire Tested: **2WSNLED-LD4-20SL-F-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P234475
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-LD4-20SL-F-UNV-L850-CD1-U
Description: 2FT WSNLED WRAPAROUND
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

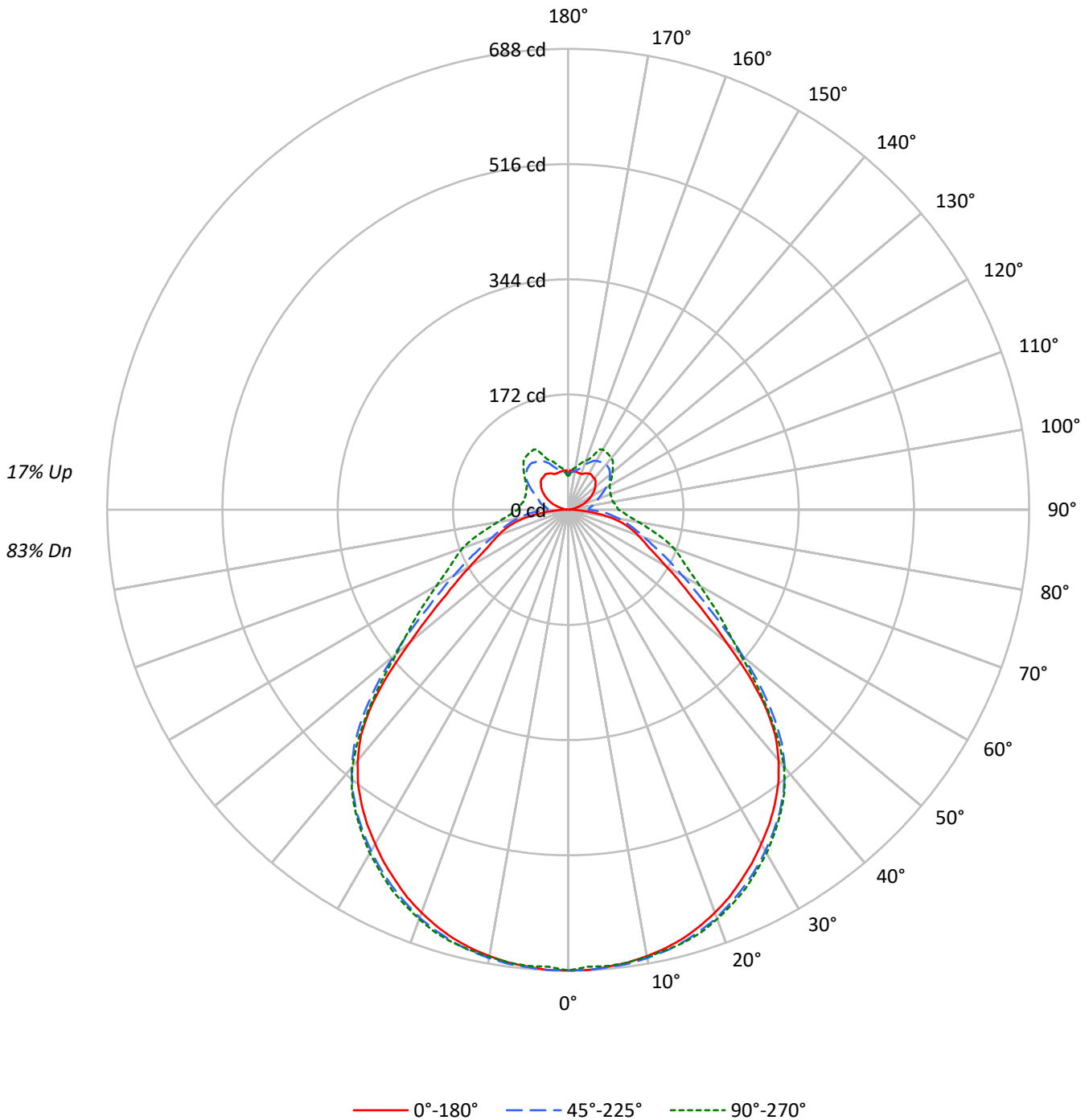
Lumens per Lamp: N/A
Luminaire Lumens: 2137.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 20.2
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°	3702	3702	3702
5°	3680	3663	3654
10°	3658	3630	3624
15°	3631	3592	3605
20°	3585	3542	3562
25°	3523	3472	3506
30°	3456	3396	3433
35°	3383	3311	3339
40°	3262	3179	3185
45°	2984	2902	2846
50°	2399	2461	2436
55°	1925	2020	2192
60°	1638	1725	2005
65°	1483	1521	1928
70°	1487	1394	1963
75°	1507	1356	1916
80°	1396	1366	1935
85°	951	1372	2222



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	3.1
10°-20°	188.1	8.8
20°-30°	285.4	13.4
30°-40°	342.0	16.0
40°-50°	326.4	15.3
50°-60°	230.6	10.8
60°-70°	156.6	7.3
70°-80°	106.9	5.0
80°-90°	61.9	2.9
90°-100°	39.7	1.9
100°-110°	44.3	2.1
110°-120°	53.3	2.5
120°-130°	61.1	2.9
130°-140°	62.6	2.9
140°-150°	53.2	2.5
150°-160°	35.8	1.7
160°-170°	18.4	0.9
170°-180°	5.5	0.3
0°-30°	538.7	25.2
0°-40°	880.7	41.2
0°-60°	1437.7	67.3
0°-90°	1763.1	82.5
90°-120°	137.4	6.4
90°-150°	314.2	14.7
90°-180°	374.0	17.5
0°-180°	2137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	685	686	686	685	684	65
15°	662	664	668	669	669	187
25°	611	615	621	624	625	281
35°	538	543	551	553	553	335
45°	417	430	432	434	421	315
55°	224	245	256	263	275	205
65°	132	144	153	165	192	134
75°	89	75	98	117	135	93
85°	26	36	56	79	87	29
90°	1	15	32	60	75	2
95°	2	15	32	60	72	3
105°	14	21	44	61	67	15
115°	32	46	56	64	69	31
125°	47	59	75	77	78	41
135°	58	69	86	94	94	44
145°	62	71	86	100	103	39
155°	60	65	78	90	89	28
165°	57	59	63	70	71	16
175°	59	60	56	53	59	6
180°	51	51	51	51	51	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	687.9	687.9	687.9	687.9	687.9
2.5°	687.9	687.9	687.9	685.8	682.8
5°	684.8	685.8	685.8	684.8	683.8
7.5°	681.8	682.8	683.8	682.8	681.8
10°	676.7	678.7	679.7	679.7	677.7
12.5°	670.6	672.6	674.6	674.6	673.6
15°	662.5	664.5	667.5	668.6	668.6
17.5°	652.3	654.3	658.4	661.4	661.4
20°	640.1	643.2	648.2	650.3	650.3
22.5°	626.9	629.9	635.0	637.1	638.1
25°	610.6	614.7	620.8	623.8	624.9
27.5°	594.4	599.5	605.6	608.6	608.6
30°	576.1	582.2	588.3	591.3	592.3
32.5°	557.8	562.9	570.0	573.0	573.0
35°	537.5	542.6	550.7	552.7	552.7
37.5°	515.1	521.2	528.3	531.4	530.4
40°	488.7	495.8	502.9	505.0	500.9
42.5°	458.2	466.4	471.4	473.5	463.3
45°	416.6	429.8	431.8	433.8	420.6
47.5°	364.8	382.0	388.1	387.1	376.9
50°	307.9	332.2	340.4	341.4	334.3
52.5°	262.1	286.5	296.7	300.7	301.8
55°	223.5	244.9	256.0	263.2	275.3
57.5°	194.1	213.4	224.5	232.7	248.9
60°	168.7	187.0	197.1	206.3	226.6
62.5°	148.3	164.6	173.7	182.9	207.3
65°	132.1	144.3	153.4	164.6	192.0
67.5°	120.9	126.0	135.1	150.4	179.8
70°	110.7	107.7	120.9	137.2	167.6
72.5°	100.6	91.4	108.7	126.0	152.4
75°	89.4	75.2	97.5	116.8	135.1
77.5°	76.2	64.0	87.4	106.7	119.9
80°	61.0	53.8	77.2	97.5	106.7
82.5°	43.7	44.7	66.0	88.4	95.5
85°	26.4	35.6	55.9	79.3	87.4
87.5°	12.2	25.4	42.7	68.1	81.3
90°	1.0	15.2	31.5	59.9	75.2
92.5°	1.0	15.2	30.5	59.9	73.2
95°	2.0	15.2	32.5	59.9	72.1
97.5°	4.1	15.2	34.5	59.9	70.1
100°	7.1	15.2	38.6	59.9	68.1
102.5°	10.2	17.3	41.7	61.0	67.1
105°	14.2	21.3	43.7	61.0	67.1
107.5°	18.3	26.4	45.7	61.0	67.1
110°	23.4	33.5	47.8	62.0	67.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.4	40.6	50.8	63.0	68.1
115°	31.5	45.7	55.9	64.0	69.1
117.5°	35.6	48.8	59.9	66.0	70.1
120°	39.6	52.8	65.0	69.1	71.1
122.5°	42.7	55.9	70.1	73.2	75.2
125°	46.7	58.9	75.2	77.2	78.2
127.5°	49.8	62.0	78.2	82.3	82.3
130°	52.8	64.0	81.3	86.4	86.4
132.5°	54.9	67.1	84.3	90.4	90.4
135°	57.9	69.1	86.4	94.5	94.5
137.5°	59.9	71.1	87.4	96.5	98.6
140°	61.0	71.1	88.4	98.6	100.6
142.5°	61.0	72.1	88.4	99.6	101.6
145°	62.0	71.1	86.4	99.6	102.6
147.5°	63.0	70.1	85.3	99.6	102.6
150°	62.0	69.1	84.3	96.5	103.6
152.5°	61.0	67.1	82.3	92.5	101.6
155°	59.9	65.0	78.2	90.4	89.4
157.5°	57.9	63.0	75.2	85.3	81.3
160°	56.9	61.0	70.1	81.3	78.2
162.5°	56.9	58.9	66.0	76.2	75.2
165°	56.9	58.9	63.0	70.1	71.1
167.5°	57.9	58.9	61.0	63.0	67.1
170°	57.9	58.9	58.9	58.9	64.0
172.5°	58.9	59.9	56.9	54.9	62.0
175°	58.9	59.9	55.9	52.8	58.9
177.5°	58.9	58.9	54.9	50.8	51.8
180°	50.8	50.8	50.8	50.8	50.8

(END OF REPORT)