

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: P234485

Luminaire Tested: **4WSNLED-LD4-20SL-F-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P234485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-169-11)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4WSNLED-LD4-20SL-F-UNV-L835-CD1-U
Description: 4FT WSNLED WRAPAROUND
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

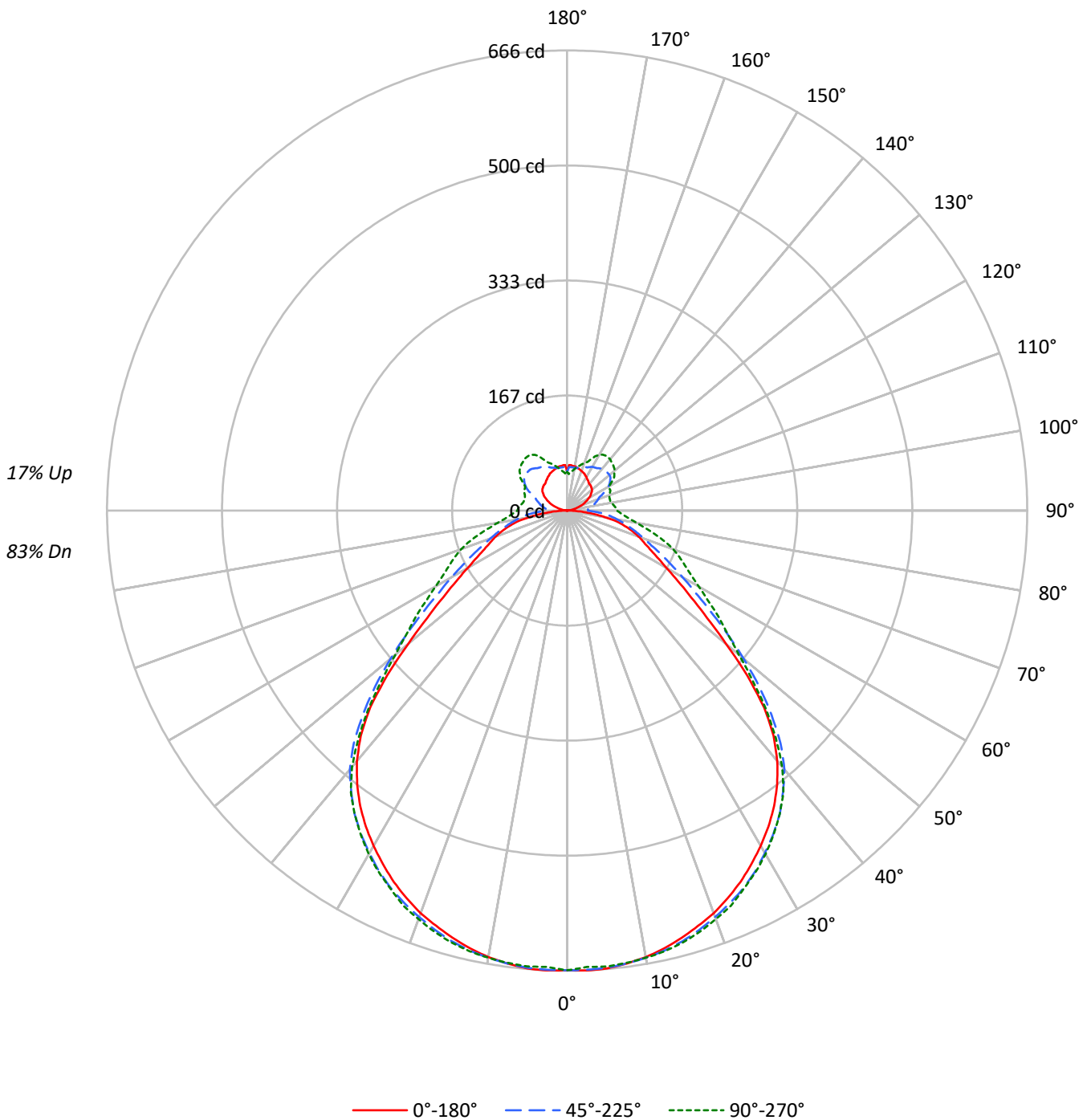
Lumens per Lamp: N/A
Luminaire Lumens: 2065.8 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 17.9
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

TEST NUMBER: P234485

CATALOG NUMBER: 4WSNLED-LD4-20SL-F-UNV-L835-CD1-U

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	93	89	89	86	83	82	80	78	76	74	72	69
2	96	88	82	76	92	85	79	74	78	74	70	73	69	65	67	64	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	81	69	61	55	77	67	59	53	62	56	51	58	53	48	54	50	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	48	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	38	33	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°	1790	1790	1790
5°	1792	1777	1769
10°	1783	1761	1757
15°	1769	1746	1745
20°	1756	1724	1723
25°	1736	1703	1695
30°	1710	1671	1664
35°	1679	1635	1620
40°	1620	1573	1539
45°	1488	1433	1377
50°	1211	1232	1181
55°	984	1022	1063
60°	848	872	974
65°	788	772	945
70°	797	712	955
75°	810	692	929
80°	750	705	925
85°	546	737	1055



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	3.1
10°-20°	181.7	8.8
20°-30°	276.5	13.4
30°-40°	331.6	16.1
40°-50°	315.6	15.3
50°-60°	224.8	10.9
60°-70°	152.8	7.4
70°-80°	103.1	5.0
80°-90°	59.1	2.9
90°-100°	38.2	1.8
100°-110°	43.0	2.1
110°-120°	53.4	2.6
120°-130°	61.2	3.0
130°-140°	58.2	2.8
140°-150°	47.1	2.3
150°-160°	32.4	1.6
160°-170°	18.3	0.9
170°-180°	5.9	0.3
0°-30°	521.3	25.2
0°-40°	852.9	41.3
0°-60°	1393.3	67.4
0°-90°	1708.3	82.7
90°-120°	134.5	6.5
90°-150°	301.0	14.6
90°-180°	358.0	17.3
0°-180°	2065.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	665	665	665	665	665	
5°	665	661	664	663	662	63
15°	640	639	645	648	647	181
25°	593	594	603	605	604	273
35°	522	525	536	536	536	326
45°	403	413	418	418	407	305
55°	219	241	252	254	267	200
65°	132	141	150	159	188	133
75°	87	73	94	112	131	91
85°	24	34	54	75	83	27
90°	0	15	30	57	72	2
95°	2	14	31	58	69	3
105°	14	21	42	58	64	15
115°	29	46	57	64	69	29
125°	42	56	76	82	83	38
135°	49	59	80	92	94	38
145°	53	59	75	92	97	33
155°	59	60	69	80	82	27
165°	63	63	64	65	67	18
175°	66	66	63	55	56	6
180°	56	56	56	56	56	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	665.2	665.2	665.2	665.2	665.2
2.5°	666.2	663.2	665.2	665.2	661.2
5°	665.2	661.2	664.2	663.2	662.2
7.5°	661.2	658.2	661.2	662.2	660.2
10°	656.2	653.2	657.2	658.2	657.2
12.5°	649.2	647.2	652.2	654.2	653.2
15°	640.2	639.2	645.2	648.2	647.2
17.5°	630.2	629.2	636.2	640.2	639.2
20°	620.2	619.2	626.2	629.2	629.2
22.5°	607.2	607.2	615.2	618.2	619.2
25°	593.2	594.2	603.2	605.2	604.2
27.5°	577.2	578.2	589.2	590.2	590.2
30°	560.2	562.2	572.2	573.2	574.2
32.5°	542.2	544.2	555.2	555.2	556.2
35°	522.2	525.2	536.2	536.2	536.2
37.5°	499.2	503.2	513.2	513.2	514.2
40°	473.2	479.2	489.2	488.2	484.2
42.5°	442.1	450.1	457.1	456.1	447.1
45°	403.1	413.1	418.1	418.1	407.1
47.5°	353.1	368.1	377.1	373.1	364.1
50°	300.1	322.1	333.1	331.1	324.1
52.5°	255.1	280.1	291.1	290.1	292.1
55°	219.1	241.1	252.1	254.1	267.1
57.5°	190.1	210.1	219.1	225.1	241.1
60°	166.1	184.1	193.1	199.1	220.1
62.5°	147.0	161.1	170.1	177.1	202.1
65°	132.0	141.0	150.0	159.1	188.1
67.5°	120.0	122.0	132.0	145.0	176.1
70°	110.0	103.0	118.0	133.0	163.1
72.5°	99.0	87.0	106.0	121.0	148.0
75°	87.0	73.0	94.0	112.0	131.0
77.5°	74.0	61.0	84.0	102.0	115.0
80°	57.0	52.0	74.0	93.0	102.0
82.5°	40.0	43.0	64.0	85.0	91.0
85°	24.0	34.0	54.0	75.0	83.0
87.5°	11.0	25.0	41.0	65.0	77.0
90°	0.0	15.0	30.0	57.0	72.0
92.5°	1.0	15.0	30.0	58.0	71.0
95°	2.0	14.0	31.0	58.0	69.0
97.5°	4.0	14.0	34.0	57.0	67.0
100°	7.0	15.0	37.0	57.0	65.0
102.5°	10.0	16.0	40.0	58.0	64.0
105°	14.0	21.0	42.0	58.0	64.0
107.5°	18.0	28.0	45.0	59.0	64.0
110°	22.0	36.0	48.0	60.0	65.0



TEST NUMBER: P234485

CATALOG NUMBER: 4WSNLED-LD4-20SL-F-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	26.0	42.0	50.0	63.0	67.0
115°	29.0	46.0	57.0	64.0	69.0
117.5°	33.0	49.0	64.0	65.0	69.0
120°	36.0	52.0	69.0	69.0	70.0
122.5°	40.0	54.0	73.0	77.0	76.0
125°	42.0	56.0	76.0	82.0	83.0
127.5°	45.0	57.0	79.0	85.0	86.0
130°	47.0	58.0	80.0	88.0	90.0
132.5°	48.0	58.0	80.0	90.0	92.0
135°	49.0	59.0	80.0	92.0	94.0
137.5°	50.0	58.0	80.0	93.0	95.0
140°	50.0	58.0	79.0	93.0	97.0
142.5°	51.0	58.0	77.0	93.0	97.0
145°	53.0	59.0	75.0	92.0	97.0
147.5°	54.0	59.0	74.0	90.0	96.0
150°	56.0	59.0	73.0	87.0	93.0
152.5°	57.0	59.0	71.0	84.0	89.0
155°	59.0	60.0	69.0	80.0	82.0
157.5°	60.0	60.0	68.0	76.0	76.0
160°	61.0	61.0	66.0	72.0	73.0
162.5°	62.0	62.0	65.0	68.0	70.0
165°	63.0	63.0	64.0	65.0	67.0
167.5°	64.0	64.0	63.0	61.0	64.0
170°	65.0	65.0	63.0	58.0	61.0
172.5°	65.0	66.0	63.0	56.0	58.0
175°	66.0	66.0	63.0	55.0	56.0
177.5°	66.0	66.0	63.0	53.0	53.0
180°	56.0	56.0	56.0	56.0	56.0

(END OF REPORT)