

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: P234497

Luminaire Tested: **4WSNLED-LD4-32SL-F-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P234497
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-LD4-32SL-F-UNV-L835-CD1-U
Description: 4FT WSNLED WRAPAROUND
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

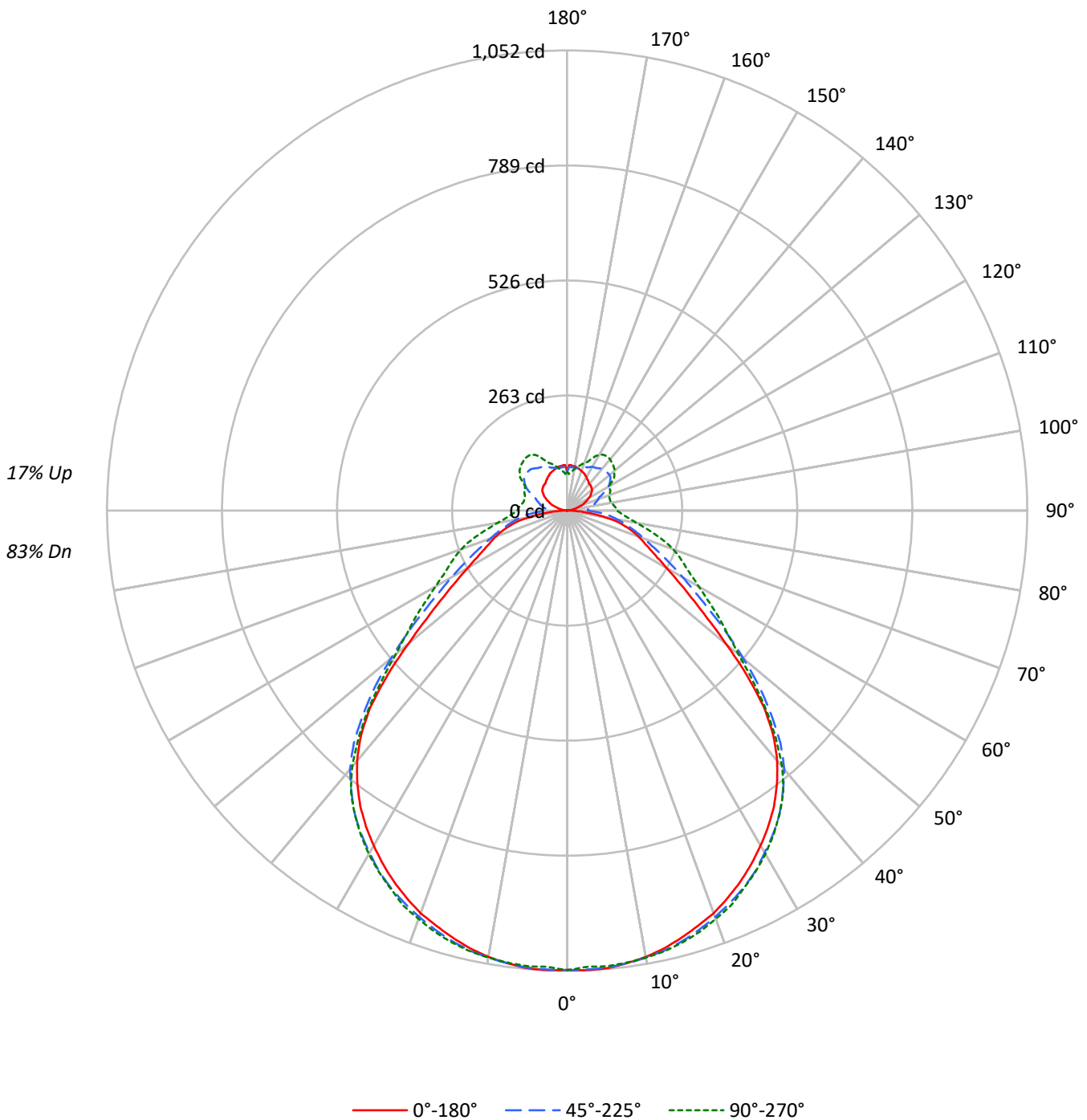
Lumens per Lamp: N/A
Luminaire Lumens: 3262.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 28.4
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	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	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°	2826	2826	2826
5°	2829	2806	2794
10°	2816	2781	2774
15°	2793	2756	2755
20°	2773	2722	2721
25°	2741	2689	2677
30°	2700	2639	2627
35°	2651	2581	2557
40°	2557	2483	2430
45°	2349	2262	2174
50°	1912	1945	1864
55°	1553	1613	1679
60°	1339	1377	1537
65°	1244	1219	1491
70°	1259	1125	1507
75°	1279	1093	1467
80°	1185	1114	1461
85°	862	1164	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	3.1
10°-20°	286.9	8.8
20°-30°	436.5	13.4
30°-40°	523.5	16.0
40°-50°	498.4	15.3
50°-60°	354.9	10.9
60°-70°	241.3	7.4
70°-80°	162.8	5.0
80°-90°	93.3	2.9
90°-100°	60.3	1.8
100°-110°	67.8	2.1
110°-120°	84.3	2.6
120°-130°	96.7	3.0
130°-140°	91.9	2.8
140°-150°	74.4	2.3
150°-160°	51.2	1.6
160°-170°	28.9	0.9
170°-180°	9.2	0.3
0°-30°	823.1	25.2
0°-40°	1346.6	41.3
0°-60°	2199.8	67.4
0°-90°	2697.2	82.7
90°-120°	212.4	6.5
90°-150°	475.5	14.6
90°-180°	565.0	17.3
0°-180°	3262.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1050	1044	1049	1047	1046	100
15°	1011	1009	1019	1024	1022	285
25°	937	938	952	956	954	431
35°	824	829	847	847	847	514
45°	636	652	660	660	643	482
55°	346	381	398	401	422	316
65°	208	223	237	251	297	210
75°	137	115	148	177	207	143
85°	38	54	85	118	131	42
90°	0	24	47	90	114	3
95°	3	22	49	92	109	4
105°	22	33	66	92	101	23
115°	46	73	90	101	109	46
125°	66	88	120	130	131	60
135°	77	93	126	145	148	60
145°	84	93	118	145	153	52
155°	93	95	109	126	130	43
165°	100	100	101	103	106	28
175°	104	104	100	87	88	10
180°	88	88	88	88	88	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.3	1050.3	1050.3	1050.3	1050.3
2.5°	1051.9	1047.1	1050.3	1050.3	1044.0
5°	1050.3	1044.0	1048.7	1047.1	1045.6
7.5°	1044.0	1039.3	1044.0	1045.6	1042.4
10°	1036.1	1031.4	1037.7	1039.3	1037.7
12.5°	1025.0	1021.9	1029.8	1032.9	1031.4
15°	1010.8	1009.2	1018.7	1023.5	1021.9
17.5°	995.0	993.4	1004.5	1010.8	1009.2
20°	979.2	977.7	988.7	993.4	993.4
22.5°	958.7	958.7	971.3	976.1	977.7
25°	936.6	938.2	952.4	955.5	954.0
27.5°	911.3	912.9	930.3	931.9	931.9
30°	884.5	887.6	903.4	905.0	906.6
32.5°	856.0	859.2	876.6	876.6	878.2
35°	824.5	829.2	846.6	846.6	846.6
37.5°	788.1	794.4	810.2	810.2	811.8
40°	747.1	756.5	772.3	770.8	764.4
42.5°	698.1	710.7	721.8	720.2	706.0
45°	636.5	652.3	660.2	660.2	642.8
47.5°	557.5	581.2	595.4	589.1	574.9
50°	473.8	508.6	525.9	522.8	511.7
52.5°	402.7	442.2	459.6	458.0	461.2
55°	345.9	380.6	398.0	401.2	421.7
57.5°	300.1	331.7	345.9	355.4	380.6
60°	262.2	290.6	304.8	314.3	347.5
62.5°	232.2	254.3	268.5	279.6	319.0
65°	208.5	222.7	236.9	251.1	296.9
67.5°	189.5	192.7	208.5	229.0	278.0
70°	173.7	162.7	186.4	210.1	257.4
72.5°	156.4	137.4	167.4	191.1	233.8
75°	137.4	115.3	148.5	176.9	206.9
77.5°	116.9	96.3	132.7	161.1	181.6
80°	90.0	82.1	116.9	146.9	161.1
82.5°	63.2	67.9	101.1	134.2	143.7
85°	37.9	53.7	85.3	118.5	131.1
87.5°	17.4	39.5	64.8	102.7	121.6
90°	0.0	23.7	47.4	90.0	113.7
92.5°	1.6	23.7	47.4	91.6	112.1
95°	3.2	22.1	49.0	91.6	109.0
97.5°	6.3	22.1	53.7	90.0	105.8
100°	11.1	23.7	58.4	90.0	102.7
102.5°	15.8	25.3	63.2	91.6	101.1
105°	22.1	33.2	66.3	91.6	101.1
107.5°	28.4	44.2	71.1	93.2	101.1
110°	34.7	56.9	75.8	94.8	102.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	41.1	66.3	79.0	99.5	105.8
115°	45.8	72.7	90.0	101.1	109.0
117.5°	52.1	77.4	101.1	102.7	109.0
120°	56.9	82.1	109.0	109.0	110.6
122.5°	63.2	85.3	115.3	121.6	120.0
125°	66.3	88.4	120.0	129.5	131.1
127.5°	71.1	90.0	124.8	134.2	135.8
130°	74.2	91.6	126.4	139.0	142.1
132.5°	75.8	91.6	126.4	142.1	145.3
135°	77.4	93.2	126.4	145.3	148.5
137.5°	79.0	91.6	126.4	146.9	150.0
140°	79.0	91.6	124.8	146.9	153.2
142.5°	80.5	91.6	121.6	146.9	153.2
145°	83.7	93.2	118.5	145.3	153.2
147.5°	85.3	93.2	116.9	142.1	151.6
150°	88.4	93.2	115.3	137.4	146.9
152.5°	90.0	93.2	112.1	132.7	140.6
155°	93.2	94.8	109.0	126.4	129.5
157.5°	94.8	94.8	107.4	120.0	120.0
160°	96.3	96.3	104.2	113.7	115.3
162.5°	97.9	97.9	102.7	107.4	110.6
165°	99.5	99.5	101.1	102.7	105.8
167.5°	101.1	101.1	99.5	96.3	101.1
170°	102.7	102.7	99.5	91.6	96.3
172.5°	102.7	104.2	99.5	88.4	91.6
175°	104.2	104.2	99.5	86.9	88.4
177.5°	104.2	104.2	99.5	83.7	83.7
180°	88.4	88.4	88.4	88.4	88.4

(END OF REPORT)