

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: P#

Luminaire Tested: **4ILED-LD5-11-N-TWBWG-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34186)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-11-N-TWBWG-UNV-L835-CD1-U  
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION  
  
Light Source: (1) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: -

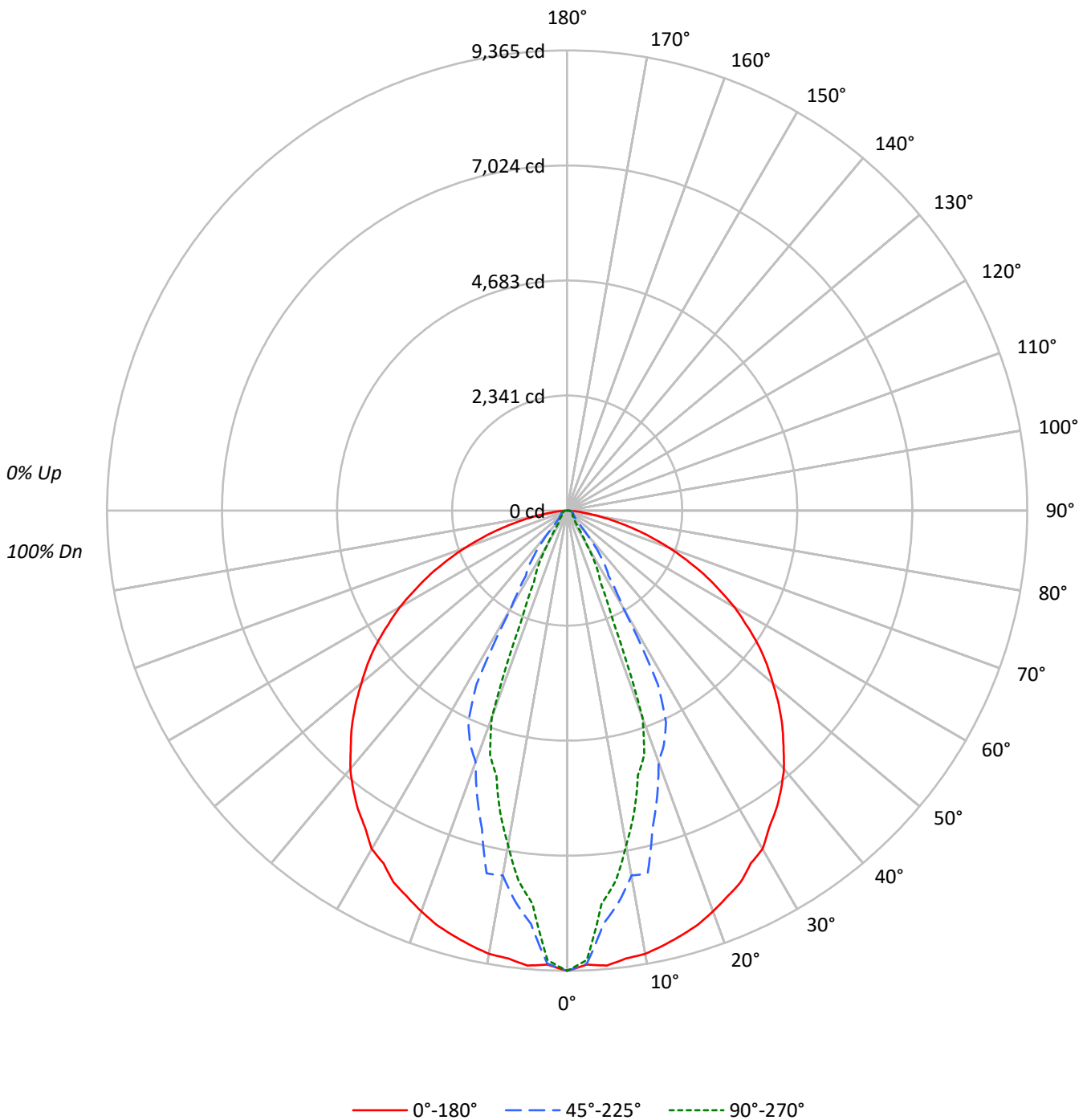
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9298.0 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 83.9  
Input Voltage (V):  
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71				71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				64
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54				54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49				49
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46				46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43				43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40				40

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	27493	27493	27493
5°	27329	24686	23466
10°	27183	22113	20249
15°	27033	19873	16455
20°	26869	16438	13481
25°	26739	14766	4904
30°	26575	7353	2556
35°	26135	4447	973
40°	25768	2223	848
45°	25089	963	628
50°	24237	815	572
55°	23402	680	600
60°	22139	706	585
65°	20246	764	598
70°	17671	796	620
75°	14126	876	682
80°	9522	1032	755
85°	5080	1219	946



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	800.0	8.6
10°-20°	1939.4	20.9
20°-30°	2112.6	22.7
30°-40°	1625.2	17.5
40°-50°	1200.8	12.9
50°-60°	755.5	8.1
60°-70°	494.7	5.3
70°-80°	277.0	3.0
80°-90°	92.8	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4852.0	52.2
0°-40°	6477.2	69.7
0°-60°	8433.5	90.7
0°-90°	9298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9298.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9365	9365	9365	9365	9365	
5°	9294	9222	8447	7948	8039	880
15°	8954	7785	6705	5820	5573	2528
25°	8351	6240	4760	2120	1591	3839
35°	7420	4599	1323	422	292	4641
45°	6194	2449	254	214	168	4770
55°	4736	628	151	158	135	4219
65°	3071	155	132	118	106	3029
75°	1362	117	105	94	85	1461
85°	194	74	75	72	63	247
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9365.3	9365.3	9365.3	9365.3	9365.3
2.5°	9249.9	9252.9	9229.9	9183.7	9154.5
5°	9294.5	9222.2	8446.7	7948.2	8039.0
7.5°	9192.9	8819.1	8039.0	7666.7	7594.4
10°	9159.1	8200.6	7542.1	7415.9	6923.6
12.5°	9062.2	7825.2	7565.1	6769.7	6297.4
15°	8954.5	7785.2	6705.1	5820.4	5572.7
17.5°	8837.5	7434.4	6092.7	5334.2	5215.7
20°	8679.1	7209.7	5443.5	4903.4	4486.5
22.5°	8508.3	7102.0	5149.6	3195.6	2477.1
25°	8351.3	6240.4	4760.3	2120.1	1590.9
27.5°	8092.9	6171.2	3998.7	1552.4	1312.4
30°	7952.9	5531.2	2287.9	1167.8	801.6
32.5°	7649.8	5029.6	1566.3	709.3	478.5
35°	7420.5	4598.8	1323.2	421.6	292.3
37.5°	7151.3	4314.1	989.3	289.3	253.9
40°	6865.1	3978.7	626.2	258.5	241.6
42.5°	6517.4	3583.3	370.8	243.1	207.7
45°	6194.3	2449.4	253.9	213.9	167.7
47.5°	5837.3	1670.9	216.9	181.6	144.6
50°	5465.0	1092.4	198.5	161.5	141.5
52.5°	5115.7	895.4	172.3	161.5	141.5
55°	4735.7	627.7	150.8	158.5	135.4
57.5°	4318.8	390.8	141.5	153.9	130.8
60°	3934.1	230.8	140.0	149.2	118.5
62.5°	3484.9	175.4	136.9	132.3	112.3
65°	3071.0	155.4	132.3	118.5	106.2
67.5°	2626.3	140.0	123.1	113.9	103.1
70°	2200.2	126.2	116.9	106.2	93.9
72.5°	1772.4	121.5	110.8	100.0	89.2
75°	1361.6	116.9	104.6	93.9	84.6
77.5°	990.8	109.2	98.5	90.8	80.0
80°	643.1	100.0	93.9	84.6	72.3
82.5°	358.5	90.8	86.2	78.5	69.2
85°	193.9	73.9	75.4	72.3	63.1
87.5°	35.4	52.3	64.6	63.1	55.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)