

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-LD5-9-N-WG-UNV-L850-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-LD5-9-N-WG-UNV-L850-CD1-U  
Description: Metalux 4' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

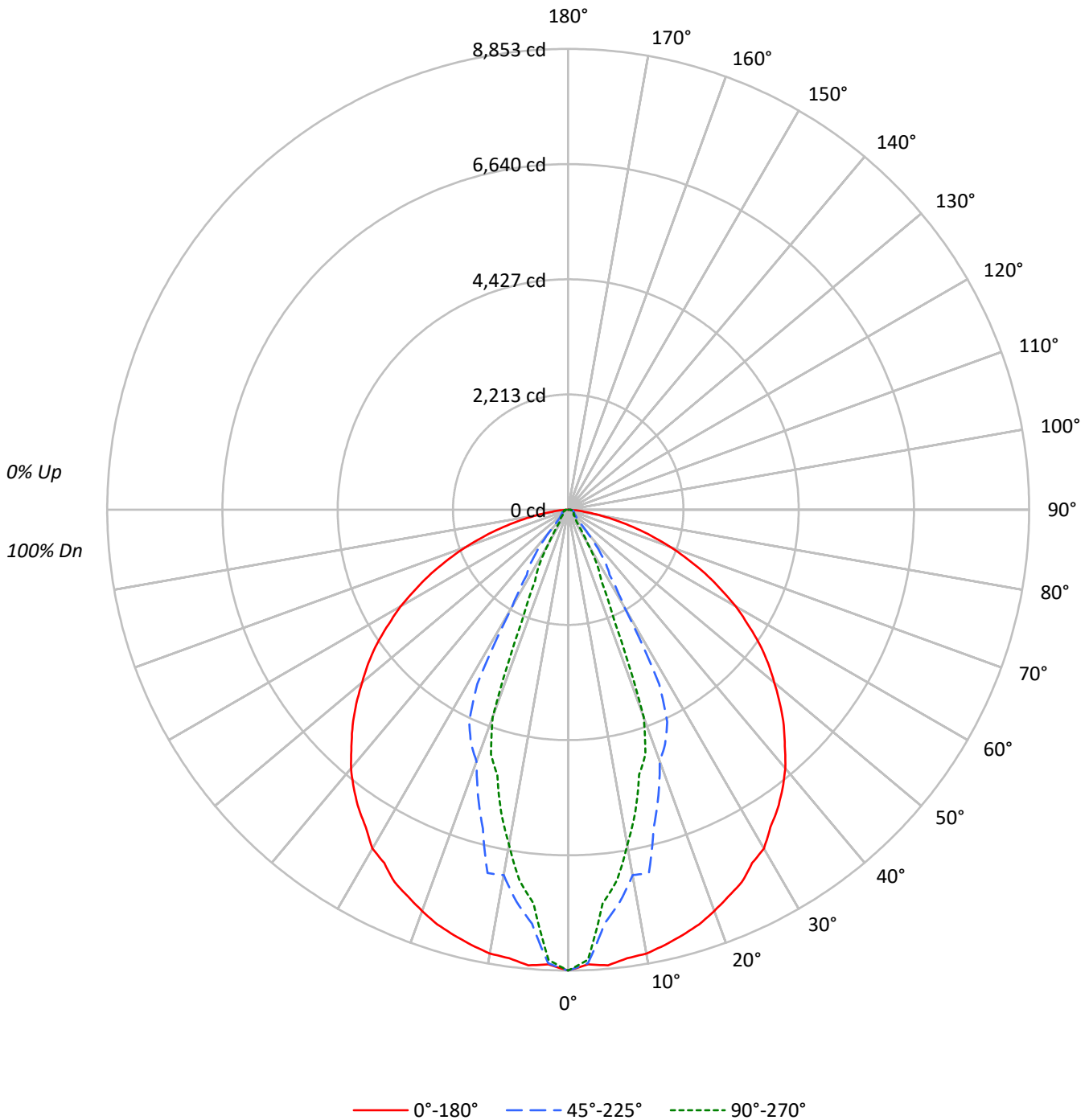
Lumens per Lamp: N/A  
Luminaire Lumens: 8789.0 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 65.7  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40

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

	0°	45°	90°
0°	25988	25988	25988
5°	25833	23335	22181
10°	25694	20902	19140
15°	25553	18785	15554
20°	25398	15538	12743
25°	25275	13958	4635
30°	25120	6950	2416
35°	24705	4203	920
40°	24357	2101	802
45°	23715	910	593
50°	22910	770	541
55°	22121	642	567
60°	20928	667	553
65°	19138	722	565
70°	16703	752	586
75°	13353	829	645
80°	9001	975	714
85°	4799	1153	893



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	756.2	8.6
10°-20°	1833.2	20.9
20°-30°	1997.0	22.7
30°-40°	1536.2	17.5
40°-50°	1135.1	12.9
50°-60°	714.2	8.1
60°-70°	467.7	5.3
70°-80°	261.8	3.0
80°-90°	87.7	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°	4586.3	52.2
0°-40°	6122.6	69.7
0°-60°	7971.8	90.7
0°-90°	8789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8789.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8853	8853	8853	8853	8853	
5°	8786	8717	7984	7513	7599	832
15°	8464	7359	6338	5502	5268	2390
25°	7894	5899	4500	2004	1504	3629
35°	7014	4347	1251	398	276	4387
45°	5855	2315	240	202	158	4509
55°	4476	593	142	150	128	3988
65°	2903	147	125	112	100	2863
75°	1287	110	99	89	80	1381
85°	183	70	71	68	60	234
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8852.6	8852.6	8852.6	8852.6	8852.6
2.5°	8743.5	8746.4	8724.6	8681.0	8653.3
5°	8785.7	8717.3	7984.3	7513.1	7598.9
7.5°	8689.7	8336.3	7598.9	7247.0	7178.6
10°	8657.7	7751.6	7129.2	7009.9	6544.5
12.5°	8566.1	7396.8	7151.0	6399.1	5952.6
15°	8464.3	7359.0	6338.0	5501.8	5267.6
17.5°	8353.7	7027.4	5759.2	5042.2	4930.2
20°	8203.9	6815.0	5145.5	4635.0	4240.9
22.5°	8042.5	6713.2	4867.7	3020.7	2341.5
25°	7894.2	5898.8	4499.7	2004.1	1503.8
27.5°	7649.8	5833.4	3779.8	1467.4	1240.6
30°	7517.5	5228.4	2162.6	1103.8	757.7
32.5°	7231.0	4754.2	1480.5	670.5	452.3
35°	7014.3	4347.0	1250.7	398.5	276.3
37.5°	6759.8	4078.0	935.1	273.4	240.0
40°	6489.3	3760.9	591.9	244.3	228.3
42.5°	6160.6	3387.2	350.5	229.8	196.3
45°	5855.2	2315.3	240.0	202.2	158.5
47.5°	5517.8	1579.4	205.1	171.6	136.7
50°	5165.8	1032.6	187.6	152.7	133.8
52.5°	4835.7	846.4	162.9	152.7	133.8
55°	4476.5	593.4	142.5	149.8	128.0
57.5°	4082.3	369.4	133.8	145.4	123.6
60°	3718.8	218.2	132.3	141.1	112.0
62.5°	3294.1	165.8	129.4	125.1	106.2
65°	2902.9	146.9	125.1	112.0	100.3
67.5°	2482.6	132.3	116.3	107.6	97.4
70°	2079.7	119.3	110.5	100.3	88.7
72.5°	1675.4	114.9	104.7	94.5	84.4
75°	1287.1	110.5	98.9	88.7	80.0
77.5°	936.6	103.3	93.1	85.8	75.6
80°	607.9	94.5	88.7	80.0	68.4
82.5°	338.9	85.8	81.4	74.2	65.4
85°	183.2	69.8	71.3	68.4	59.6
87.5°	33.4	49.4	61.1	59.6	52.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)