

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-WG-UNV-L840-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-WG-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

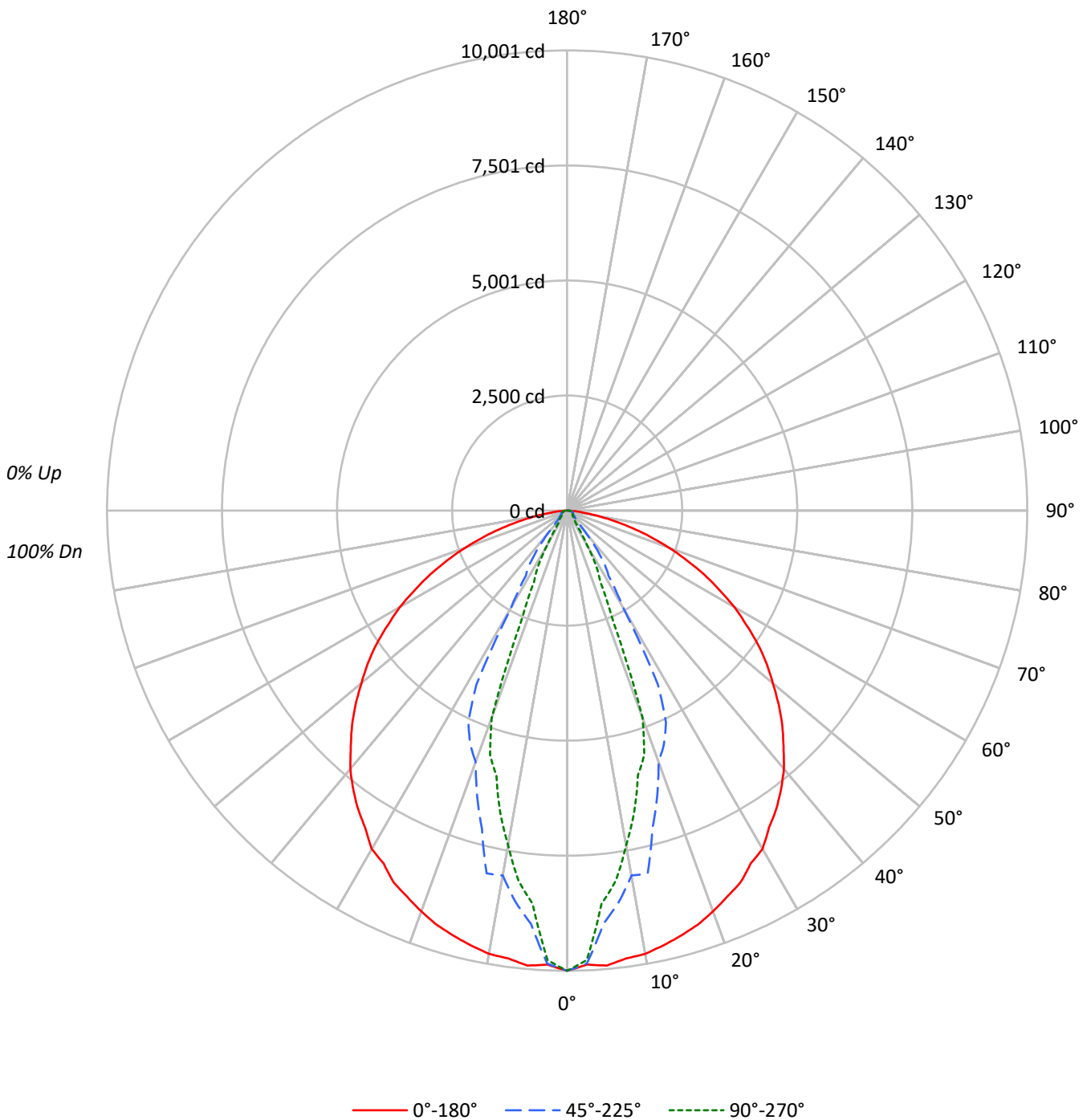
Lumens per Lamp: N/A
Luminaire Lumens: 9929.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 83.9
Input Voltage (V):
Input Current (A_{in}): 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°	29358	29358	29358
5°	29184	26362	25058
10°	29027	23613	21623
15°	28868	21222	17572
20°	28693	17554	14395
25°	28554	15768	5236
30°	28378	7852	2730
35°	27909	4749	1039
40°	27516	2374	905
45°	26791	1028	670
50°	25881	869	611
55°	24990	726	640
60°	23642	754	625
65°	21620	816	638
70°	18870	850	662
75°	15084	936	729
80°	10169	1102	806
85°	5423	1301	1010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.2	8.6
10°-20°	2071.0	20.9
20°-30°	2256.0	22.7
30°-40°	1735.5	17.5
40°-50°	1282.3	12.9
50°-60°	806.8	8.1
60°-70°	528.3	5.3
70°-80°	295.8	3.0
80°-90°	99.0	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°	5181.2	52.2
0°-40°	6916.7	69.7
0°-60°	9005.9	90.7
0°-90°	9929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10001	10001	10001	10001	10001	
5°	9925	9848	9020	8488	8585	940
15°	9562	8314	7160	6215	5951	2700
25°	8918	6664	5083	2264	1699	4100
35°	7924	4911	1413	450	312	4956
45°	6615	2616	271	228	179	5094
55°	5057	670	161	169	145	4505
65°	3279	166	141	126	113	3234
75°	1454	125	112	100	90	1560
85°	207	79	80	77	67	264
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10000.8	10000.8	10000.8	10000.8	10000.8
2.5°	9877.6	9880.9	9856.2	9807.0	9775.7
5°	9925.2	9848.0	9020.0	8487.6	8584.6
7.5°	9816.8	9417.6	8584.6	8187.0	8109.8
10°	9780.7	8757.1	8053.9	7919.2	7393.4
12.5°	9677.2	8356.2	8078.5	7229.1	6724.7
15°	9562.2	8313.5	7160.1	6215.4	5950.9
17.5°	9437.3	7938.9	6506.2	5696.2	5569.7
20°	9268.1	7699.0	5812.9	5236.2	4790.9
22.5°	9085.7	7584.0	5499.1	3412.5	2645.2
25°	8918.1	6663.9	5083.4	2264.0	1698.8
27.5°	8642.1	6590.0	4270.1	1657.8	1401.5
30°	8492.6	5906.5	2443.1	1247.0	856.0
32.5°	8168.9	5370.9	1672.6	757.4	511.0
35°	7924.1	4910.9	1413.0	450.2	312.2
37.5°	7636.6	4606.9	1056.4	308.9	271.1
40°	7331.0	4248.7	668.7	276.0	257.9
42.5°	6959.7	3826.5	396.0	259.6	221.8
45°	6614.6	2615.6	271.1	228.4	179.1
47.5°	6233.5	1784.3	231.7	193.9	154.4
50°	5835.9	1166.5	211.9	172.5	151.2
52.5°	5462.9	956.2	184.0	172.5	151.2
55°	5057.1	670.3	161.0	169.2	144.6
57.5°	4611.8	417.3	151.2	164.3	139.7
60°	4201.1	246.4	149.5	159.4	126.5
62.5°	3721.4	187.3	146.2	141.3	119.9
65°	3279.4	165.9	141.3	126.5	113.4
67.5°	2804.6	149.5	131.4	121.6	110.1
70°	2349.5	134.7	124.9	113.4	100.2
72.5°	1892.7	129.8	118.3	106.8	95.3
75°	1454.0	124.9	111.7	100.2	90.4
77.5°	1058.1	116.7	105.2	96.9	85.4
80°	686.8	106.8	100.2	90.4	77.2
82.5°	382.8	96.9	92.0	83.8	73.9
85°	207.0	78.9	80.5	77.2	67.4
87.5°	37.8	55.9	69.0	67.4	59.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)