

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-LD5-7-N-WG-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-LD5-7-N-WG-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

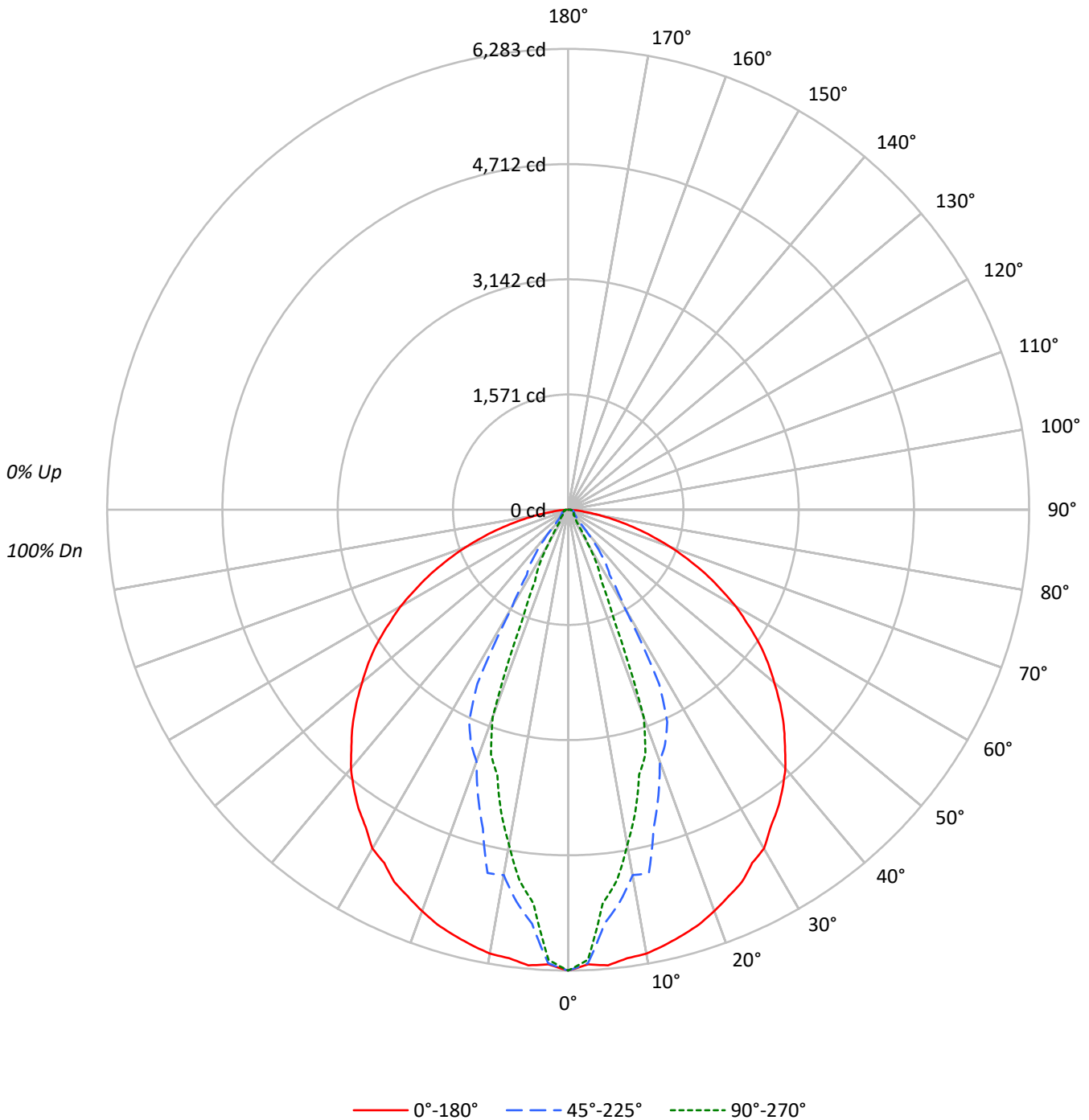
Lumens per Lamp: N/A
Luminaire Lumens: 6238.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
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°	18445	18445	18445
5°	18335	16562	15743
10°	18237	14835	13585
15°	18136	13333	11040
20°	18026	11028	9044
25°	17939	9907	3290
30°	17829	4933	1715
35°	17534	2983	653
40°	17288	1491	569
45°	16832	646	421
50°	16260	547	384
55°	15701	456	402
60°	14853	474	393
65°	13583	513	401
70°	11855	534	416
75°	9477	588	458
80°	6389	693	507
85°	3408	818	634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.7	8.6
10°-20°	1301.1	20.9
20°-30°	1417.4	22.7
30°-40°	1090.3	17.5
40°-50°	805.6	12.9
50°-60°	506.9	8.1
60°-70°	331.9	5.3
70°-80°	185.8	3.0
80°-90°	62.2	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°	3255.2	52.2
0°-40°	4345.5	69.7
0°-60°	5658.0	90.7
0°-90°	6238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6238.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6283	6283	6283	6283	6283	
5°	6236	6187	5667	5332	5393	591
15°	6008	5223	4498	3905	3739	1696
25°	5603	4187	3194	1422	1067	2576
35°	4978	3085	888	283	196	3113
45°	4156	1643	170	144	112	3200
55°	3177	421	101	106	91	2830
65°	2060	104	89	80	71	2032
75°	914	78	70	63	57	980
85°	130	50	51	48	42	166
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6283.1	6283.1	6283.1	6283.1	6283.1
2.5°	6205.7	6207.8	6192.3	6161.3	6141.7
5°	6235.6	6187.1	5666.9	5332.5	5393.4
7.5°	6167.5	5916.7	5393.4	5143.6	5095.0
10°	6144.8	5501.7	5059.9	4975.3	4645.0
12.5°	6079.8	5249.9	5075.4	4541.8	4224.9
15°	6007.5	5223.0	4498.4	3904.9	3738.7
17.5°	5929.1	4987.7	4087.6	3578.7	3499.2
20°	5822.8	4837.0	3652.0	3289.7	3010.0
22.5°	5708.2	4764.7	3454.8	2143.9	1661.9
25°	5602.9	4186.7	3193.7	1422.4	1067.3
27.5°	5429.5	4140.2	2682.7	1041.5	880.5
30°	5335.5	3710.8	1534.9	783.5	537.8
32.5°	5132.2	3374.3	1050.8	475.9	321.0
35°	4978.4	3085.3	887.7	282.8	196.1
37.5°	4797.8	2894.3	663.7	194.1	170.3
40°	4605.8	2669.3	420.1	173.4	162.1
42.5°	4372.5	2404.0	248.8	163.1	139.3
45°	4155.7	1643.3	170.3	143.5	112.5
47.5°	3916.2	1121.0	145.5	121.8	97.0
50°	3666.4	732.9	133.2	108.4	95.0
52.5°	3432.1	600.8	115.6	108.4	95.0
55°	3177.2	421.1	101.2	106.3	90.8
57.5°	2897.4	262.2	95.0	103.2	87.7
60°	2639.4	154.8	93.9	100.1	79.5
62.5°	2338.0	117.7	91.9	88.8	75.4
65°	2060.3	104.3	88.8	79.5	71.2
67.5°	1762.0	93.9	82.6	76.4	69.2
70°	1476.1	84.6	78.4	71.2	63.0
72.5°	1189.1	81.5	74.3	67.1	59.9
75°	913.5	78.4	70.2	63.0	56.8
77.5°	664.7	73.3	66.1	60.9	53.7
80°	431.5	67.1	63.0	56.8	48.5
82.5°	240.5	60.9	57.8	52.6	46.4
85°	130.1	49.5	50.6	48.5	42.3
87.5°	23.7	35.1	43.4	42.3	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)