

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-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-LD5-9-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

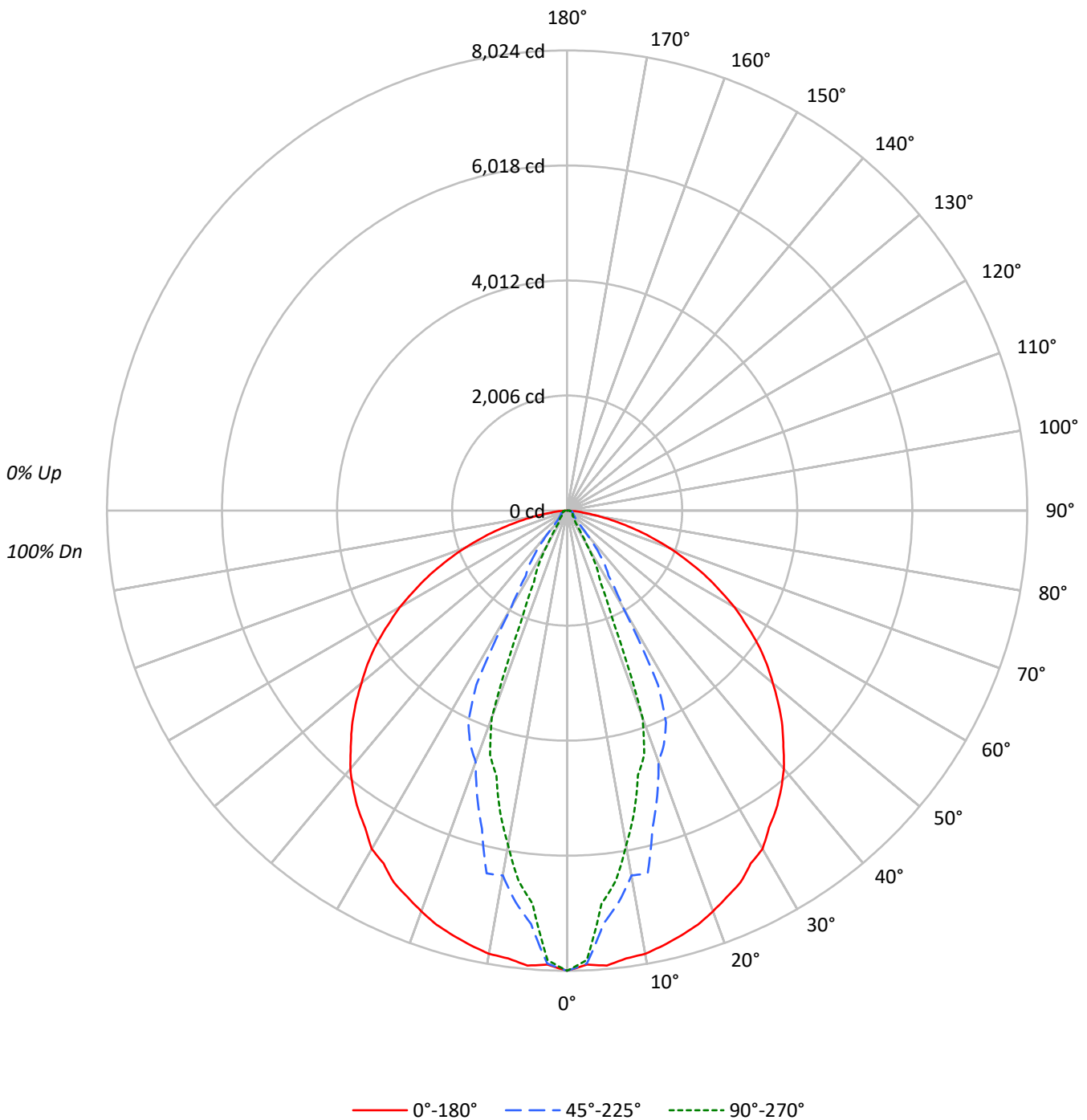
Lumens per Lamp: N/A
Luminaire Lumens: 7966.0 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 65.7
Input Voltage (V):
Input Current (A_{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°	23554	23554	23554
5°	23414	21150	20104
10°	23288	18945	17348
15°	23160	17026	14098
20°	23020	14083	11549
25°	22909	12651	4201
30°	22768	6299	2190
35°	22392	3810	834
40°	22076	1904	727
45°	21495	825	538
50°	20765	698	490
55°	20050	582	514
60°	18968	605	501
65°	17346	655	512
70°	15139	682	531
75°	12103	751	584
80°	8158	884	648
85°	4351	1044	809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.4	8.6
10°-20°	1661.5	20.9
20°-30°	1810.0	22.7
30°-40°	1392.4	17.5
40°-50°	1028.8	12.9
50°-60°	647.3	8.1
60°-70°	423.9	5.3
70°-80°	237.3	3.0
80°-90°	79.5	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°	4156.9	52.2
0°-40°	5549.3	69.7
0°-60°	7225.4	90.7
0°-90°	7966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8024	8024	8024	8024	8024	
5°	7963	7901	7237	6810	6887	754
15°	7672	6670	5744	4987	4774	2166
25°	7155	5346	4078	1816	1363	3289
35°	6358	3940	1134	361	250	3976
45°	5307	2098	218	183	144	4087
55°	4057	538	129	136	116	3615
65°	2631	133	113	102	91	2595
75°	1167	100	90	80	72	1252
85°	166	63	65	62	54	212
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8023.6	8023.6	8023.6	8023.6	8023.6
2.5°	7924.8	7927.4	7907.6	7868.1	7843.0
5°	7963.0	7901.0	7236.7	6809.6	6887.4
7.5°	7876.0	7555.7	6887.4	6568.4	6506.4
10°	7847.0	7025.8	6461.6	6353.5	5931.7
12.5°	7763.9	6704.2	6481.4	5799.9	5395.2
15°	7671.7	6669.9	5744.5	4986.6	4774.4
17.5°	7571.5	6369.3	5219.9	4570.1	4468.6
20°	7435.7	6176.9	4663.6	4201.0	3843.7
22.5°	7289.4	6084.6	4411.9	2737.8	2122.2
25°	7155.0	5346.4	4078.4	1816.4	1363.0
27.5°	6933.5	5287.1	3425.9	1330.0	1124.4
30°	6813.6	4738.8	1960.1	1000.5	686.8
32.5°	6553.9	4309.1	1341.9	607.7	409.9
35°	6357.5	3940.0	1133.6	361.2	250.4
37.5°	6126.8	3696.1	847.6	247.8	217.5
40°	5881.6	3408.8	536.5	221.5	207.0
42.5°	5583.7	3070.0	317.7	208.3	178.0
45°	5306.9	2098.5	217.5	183.2	143.7
47.5°	5001.1	1431.5	185.9	155.5	123.9
50°	4682.1	935.9	170.0	138.4	121.3
52.5°	4382.9	767.2	147.6	138.4	121.3
55°	4057.3	537.8	129.2	135.8	116.0
57.5°	3700.1	334.8	121.3	131.8	112.0
60°	3370.5	197.7	120.0	127.9	101.5
62.5°	2985.6	150.3	117.3	113.4	96.2
65°	2631.0	133.1	113.4	101.5	91.0
67.5°	2250.1	120.0	105.5	97.5	88.3
70°	1885.0	108.1	100.2	91.0	80.4
72.5°	1518.5	104.1	94.9	85.7	76.5
75°	1166.6	100.2	89.6	80.4	72.5
77.5°	848.9	93.6	84.4	77.8	68.5
80°	551.0	85.7	80.4	72.5	62.0
82.5°	307.1	77.8	73.8	67.2	59.3
85°	166.1	63.3	64.6	62.0	54.0
87.5°	30.3	44.8	55.4	54.0	47.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)