

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-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-LD5-7-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

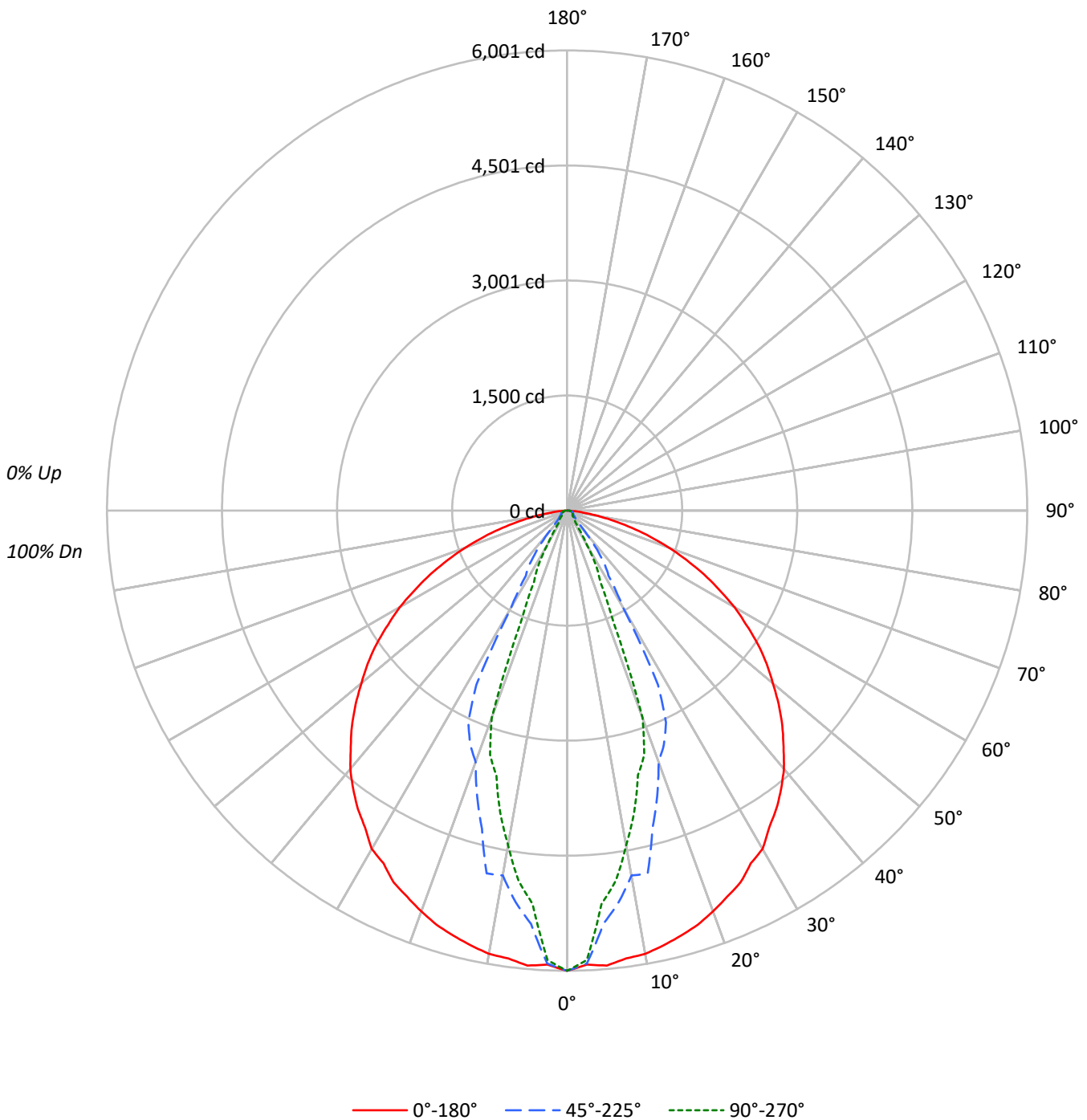
Lumens per Lamp: N/A
Luminaire Lumens: 5958.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
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	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°	17617	17617	17617
5°	17512	15818	15036
10°	17418	14169	12975
15°	17322	12734	10544
20°	17217	10533	8638
25°	17134	9462	3142
30°	17029	4711	1638
35°	16747	2849	624
40°	16511	1425	543
45°	16077	617	402
50°	15530	522	367
55°	14996	435	384
60°	14186	452	375
65°	12973	490	383
70°	11323	510	397
75°	9052	561	437
80°	6102	661	484
85°	3254	781	606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.6	8.6
10°-20°	1242.7	20.9
20°-30°	1353.8	22.7
30°-40°	1041.4	17.5
40°-50°	769.5	12.9
50°-60°	484.1	8.1
60°-70°	317.0	5.3
70°-80°	177.5	3.0
80°-90°	59.4	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°	3109.1	52.2
0°-40°	4150.5	69.7
0°-60°	5404.1	90.7
0°-90°	5958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6001	6001	6001	6001	6001	
5°	5956	5909	5412	5093	5151	564
15°	5738	4989	4296	3730	3571	1620
25°	5351	3999	3050	1359	1019	2460
35°	4755	2947	848	270	187	2974
45°	3969	1570	163	137	108	3057
55°	3035	402	97	102	87	2703
65°	1968	100	85	76	68	1941
75°	872	75	67	60	54	936
85°	124	47	48	46	40	158
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6001.1	6001.1	6001.1	6001.1	6001.1
2.5°	5927.2	5929.1	5914.3	5884.8	5866.0
5°	5955.7	5909.4	5412.5	5093.1	5151.3
7.5°	5890.7	5651.1	5151.3	4912.7	4866.3
10°	5869.0	5254.8	4832.8	4752.0	4436.5
12.5°	5806.9	5014.2	4847.6	4337.9	4035.2
15°	5737.9	4988.6	4296.5	3729.6	3570.9
17.5°	5662.9	4763.8	3904.1	3418.1	3342.2
20°	5561.4	4619.9	3488.1	3142.0	2874.8
22.5°	5452.0	4550.9	3299.8	2047.7	1587.3
25°	5351.4	3998.8	3050.3	1358.6	1019.4
27.5°	5185.8	3954.4	2562.3	994.8	841.0
30°	5096.1	3544.3	1466.0	748.3	513.6
32.5°	4901.8	3222.9	1003.6	454.5	306.6
35°	4754.9	2946.8	847.9	270.1	187.3
37.5°	4582.4	2764.4	633.9	185.3	162.7
40°	4399.0	2549.5	401.3	165.6	154.8
42.5°	4176.2	2296.1	237.6	155.8	133.1
45°	3969.2	1569.5	162.7	137.0	107.5
47.5°	3740.5	1070.7	139.0	116.3	92.7
50°	3501.9	700.0	127.2	103.5	90.7
52.5°	3278.1	573.8	110.4	103.5	90.7
55°	3034.6	402.2	96.6	101.5	86.8
57.5°	2767.4	250.4	90.7	98.6	83.8
60°	2520.9	147.9	89.7	95.6	75.9
62.5°	2233.0	112.4	87.7	84.8	72.0
65°	1967.8	99.6	84.8	75.9	68.0
67.5°	1682.9	89.7	78.9	73.0	66.1
70°	1409.8	80.8	74.9	68.0	60.1
72.5°	1135.7	77.9	71.0	64.1	57.2
75°	872.5	74.9	67.0	60.1	54.2
77.5°	634.9	70.0	63.1	58.2	51.3
80°	412.1	64.1	60.1	54.2	46.3
82.5°	229.7	58.2	55.2	50.3	44.4
85°	124.2	47.3	48.3	46.3	40.4
87.5°	22.7	33.5	41.4	40.4	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)