

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-TWBWG-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-TWBWG-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION

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

Summary

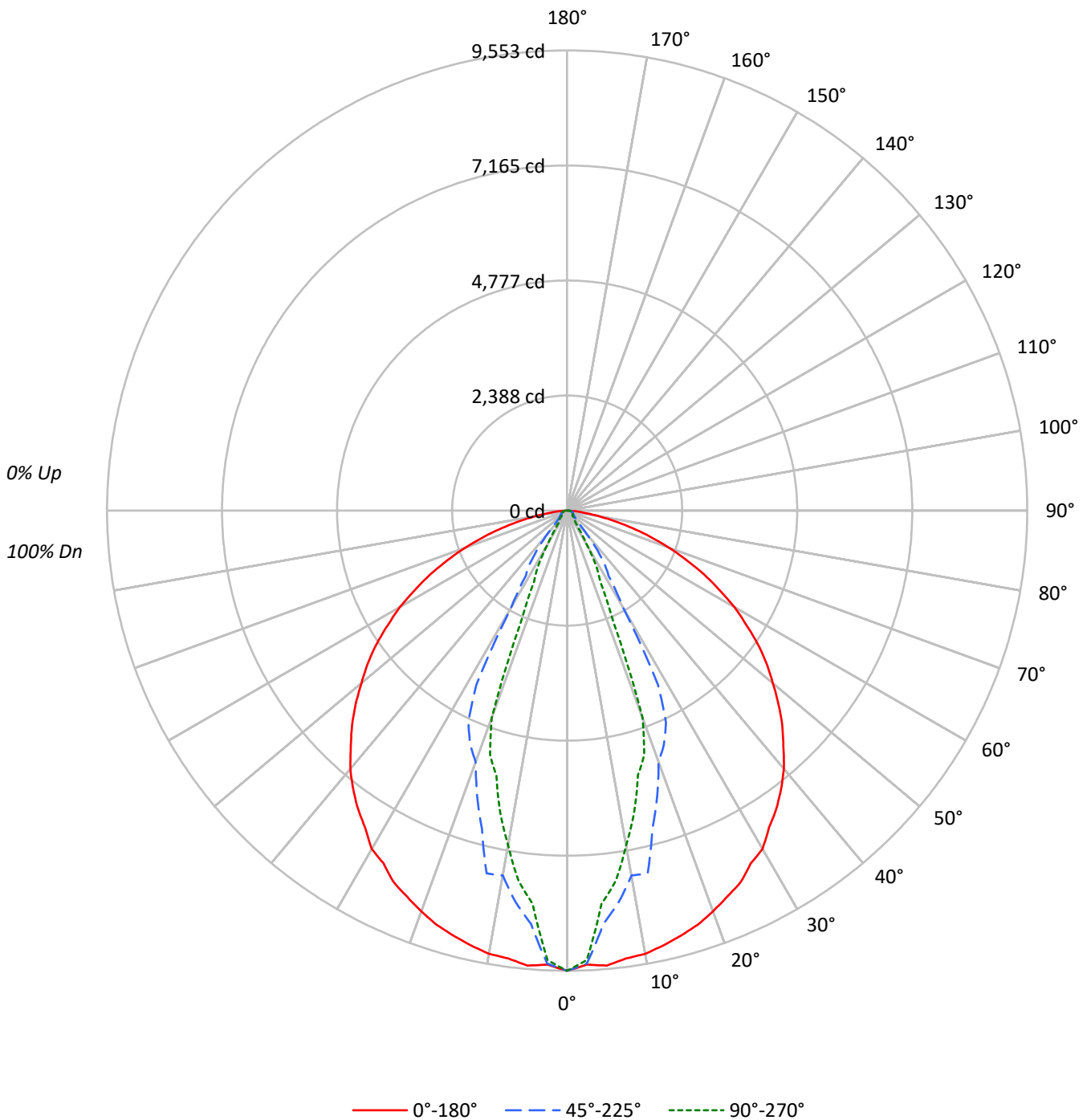
Lumens per Lamp: N/A
Luminaire Lumens: 9484.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 83.9
Input Voltage (V):
Input Current (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	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					100			
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49					49			
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28043	28043	28043
5°	27876	25180	23935
10°	27726	22555	20654
15°	27574	20270	16785
20°	27407	16767	13750
25°	27274	15062	5002
30°	27106	7500	2607
35°	26659	4535	993
40°	26283	2267	865
45°	25591	982	640
50°	24721	831	584
55°	23870	693	612
60°	22582	720	597
65°	20651	779	610
70°	18024	812	632
75°	14409	894	696
80°	9713	1052	771
85°	5179	1243	964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.0	8.6
10°-20°	1978.1	20.9
20°-30°	2154.9	22.7
30°-40°	1657.7	17.5
40°-50°	1224.8	12.9
50°-60°	770.7	8.1
60°-70°	504.6	5.3
70°-80°	282.5	3.0
80°-90°	94.6	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°	4949.0	52.2
0°-40°	6606.7	69.7
0°-60°	8602.2	90.7
0°-90°	9484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9484.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9553	9553	9553	9553	9553	
5°	9480	9407	8616	8107	8200	898
15°	9134	7941	6839	5937	5684	2579
25°	8518	6365	4856	2163	1623	3916
35°	7569	4691	1350	430	298	4733
45°	6318	2498	259	218	171	4866
55°	4830	640	154	162	138	4303
65°	3132	158	135	121	108	3089
75°	1389	119	107	96	86	1490
85°	198	75	77	74	64	252
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9552.6	9552.6	9552.6	9552.6	9552.6
2.5°	9434.9	9438.0	9414.5	9367.4	9337.6
5°	9480.4	9406.7	8615.7	8107.2	8199.8
7.5°	9376.8	8995.5	8199.8	7820.1	7746.3
10°	9342.3	8364.6	7692.9	7564.2	7062.1
12.5°	9243.4	7981.7	7716.5	6905.1	6423.3
15°	9133.6	7940.9	6839.2	5936.8	5684.2
17.5°	9014.3	7583.1	6214.6	5440.9	5320.1
20°	8852.7	7354.0	5552.3	5001.5	4576.2
22.5°	8678.5	7244.1	5252.6	3259.5	2526.6
25°	8518.4	6365.3	4855.6	2162.6	1622.7
27.5°	8254.8	6294.6	4078.7	1583.5	1338.7
30°	8111.9	5641.8	2333.6	1191.1	817.6
32.5°	7802.8	5130.2	1597.6	723.5	488.1
35°	7569.0	4690.8	1349.6	430.0	298.2
37.5°	7294.3	4400.4	1009.1	295.0	258.9
40°	7002.4	4058.3	638.7	263.7	246.4
42.5°	6647.7	3655.0	378.2	248.0	211.9
45°	6318.2	2498.4	258.9	218.1	171.1
47.5°	5954.1	1704.3	221.3	185.2	147.5
50°	5574.3	1114.2	202.4	164.8	144.4
52.5°	5218.1	913.4	175.8	164.8	144.4
55°	4830.4	640.3	153.8	161.6	138.1
57.5°	4405.2	398.6	144.4	156.9	133.4
60°	4012.8	235.4	142.8	152.2	120.8
62.5°	3554.6	178.9	139.7	135.0	114.6
65°	3132.4	158.5	135.0	120.8	108.3
67.5°	2678.9	142.8	125.5	116.1	105.1
70°	2244.2	128.7	119.3	108.3	95.7
72.5°	1807.9	124.0	113.0	102.0	91.0
75°	1388.9	119.3	106.7	95.7	86.3
77.5°	1010.7	111.4	100.4	92.6	81.6
80°	656.0	102.0	95.7	86.3	73.8
82.5°	365.7	92.6	87.9	80.0	70.6
85°	197.7	75.3	76.9	73.8	64.3
87.5°	36.1	53.4	65.9	64.3	56.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)