

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-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-LD5-9-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: -

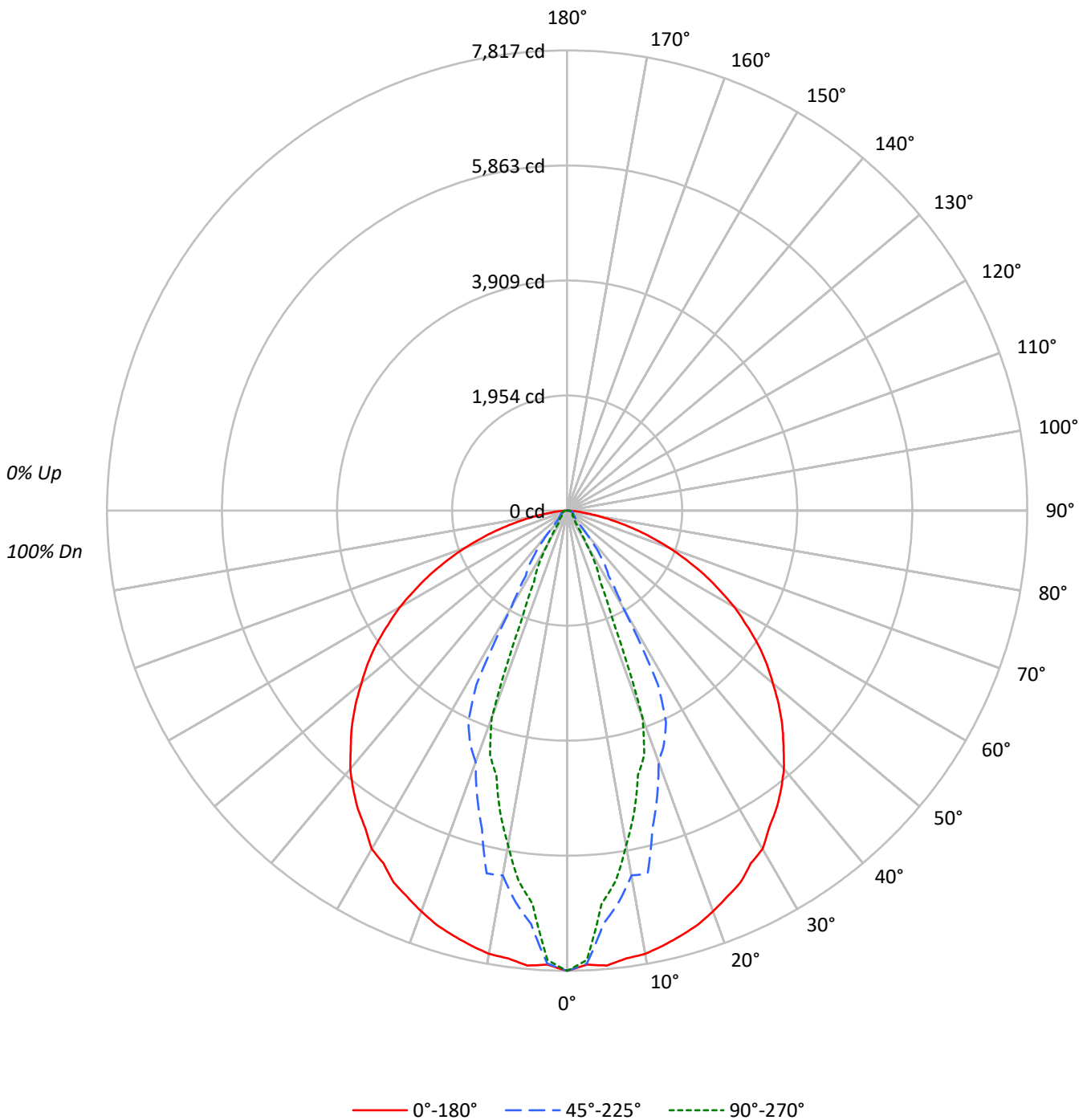
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7761.0 lumens  
Efficiency: N/A  
Efficacy: 118.1 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<sub>in</sub>): 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



TEST NUMBER: P#  
CATALOG NUMBER: 4ILED-LD5-9-N-TWBWG-UNV-L840-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-9-N-TWBWG-UNV-L840-CD1-U

**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°	22948	22948	22948
5°	22812	20606	19587
10°	22689	18457	16902
15°	22565	16588	13735
20°	22428	13721	11252
25°	22319	12325	4093
30°	22182	6137	2134
35°	21815	3711	812
40°	21508	1855	708
45°	20941	804	524
50°	20230	680	477
55°	19534	568	500
60°	18480	590	488
65°	16899	637	499
70°	14750	665	517
75°	11790	731	569
80°	7948	861	631
85°	4239	1017	790



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-9-N-TWBWG-UNV-L840-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	667.7	8.6
10°-20°	1618.8	20.9
20°-30°	1763.4	22.7
30°-40°	1356.6	17.5
40°-50°	1002.3	12.9
50°-60°	630.6	8.1
60°-70°	412.9	5.3
70°-80°	231.2	3.0
80°-90°	77.4	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°	4049.9	52.2
0°-40°	5406.5	69.7
0°-60°	7039.4	90.7
0°-90°	7761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7761.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7817	7817	7817	7817	7817	
5°	7758	7698	7050	6634	6710	735
15°	7474	6498	5597	4858	4652	2110
25°	6971	5209	3973	1770	1328	3205
35°	6194	3839	1104	352	244	3873
45°	5170	2044	212	178	140	3982
55°	3953	524	126	132	113	3522
65°	2563	130	110	99	89	2528
75°	1136	98	87	78	71	1219
85°	162	62	63	60	53	206
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-9-N-TWBWG-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7817.1	7817.1	7817.1	7817.1	7817.1
2.5°	7720.8	7723.4	7704.1	7665.6	7641.2
5°	7758.1	7697.7	7050.5	6634.4	6710.1
7.5°	7673.3	7361.2	6710.1	6399.3	6339.0
10°	7645.1	6845.0	6295.3	6190.0	5779.1
12.5°	7564.1	6531.6	6314.6	5650.6	5256.4
15°	7474.3	6498.2	5596.7	4858.3	4651.5
17.5°	7376.7	6205.4	5085.6	4452.4	4353.6
20°	7244.4	6017.9	4543.6	4092.9	3744.8
22.5°	7101.8	5928.0	4298.3	2667.4	2067.6
25°	6970.8	5208.9	3973.4	1769.7	1327.9
27.5°	6755.1	5151.1	3337.7	1295.8	1095.5
30°	6638.2	4616.8	1909.7	974.7	669.1
32.5°	6385.2	4198.2	1307.4	592.0	399.4
35°	6193.9	3838.6	1104.4	351.9	244.0
37.5°	5969.1	3601.0	825.8	241.4	211.9
40°	5730.3	3321.0	522.7	215.8	201.6
42.5°	5440.0	2991.0	309.5	202.9	173.4
45°	5170.3	2044.5	211.9	178.5	140.0
47.5°	4872.4	1394.7	181.1	151.5	120.7
50°	4561.6	911.8	165.7	134.8	118.1
52.5°	4270.1	747.4	143.8	134.8	118.1
55°	3952.9	524.0	125.9	132.3	113.0
57.5°	3604.9	326.2	118.1	128.4	109.2
60°	3283.8	192.6	116.9	124.6	98.9
62.5°	2908.8	146.4	114.3	110.4	93.7
65°	2563.3	129.7	110.4	98.9	88.6
67.5°	2192.2	116.9	102.7	95.0	86.0
70°	1836.5	105.3	97.6	88.6	78.3
72.5°	1479.4	101.5	92.5	83.5	74.5
75°	1136.5	97.6	87.3	78.3	70.6
77.5°	827.0	91.2	82.2	75.8	66.8
80°	536.8	83.5	78.3	70.6	60.4
82.5°	299.2	75.8	71.9	65.5	57.8
85°	161.8	61.6	62.9	60.4	52.7
87.5°	29.5	43.7	53.9	52.7	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)