

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-LD5-5-N-TWB-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 (P34185)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-5-N-TWB-UNV-L835-CD1-U  
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

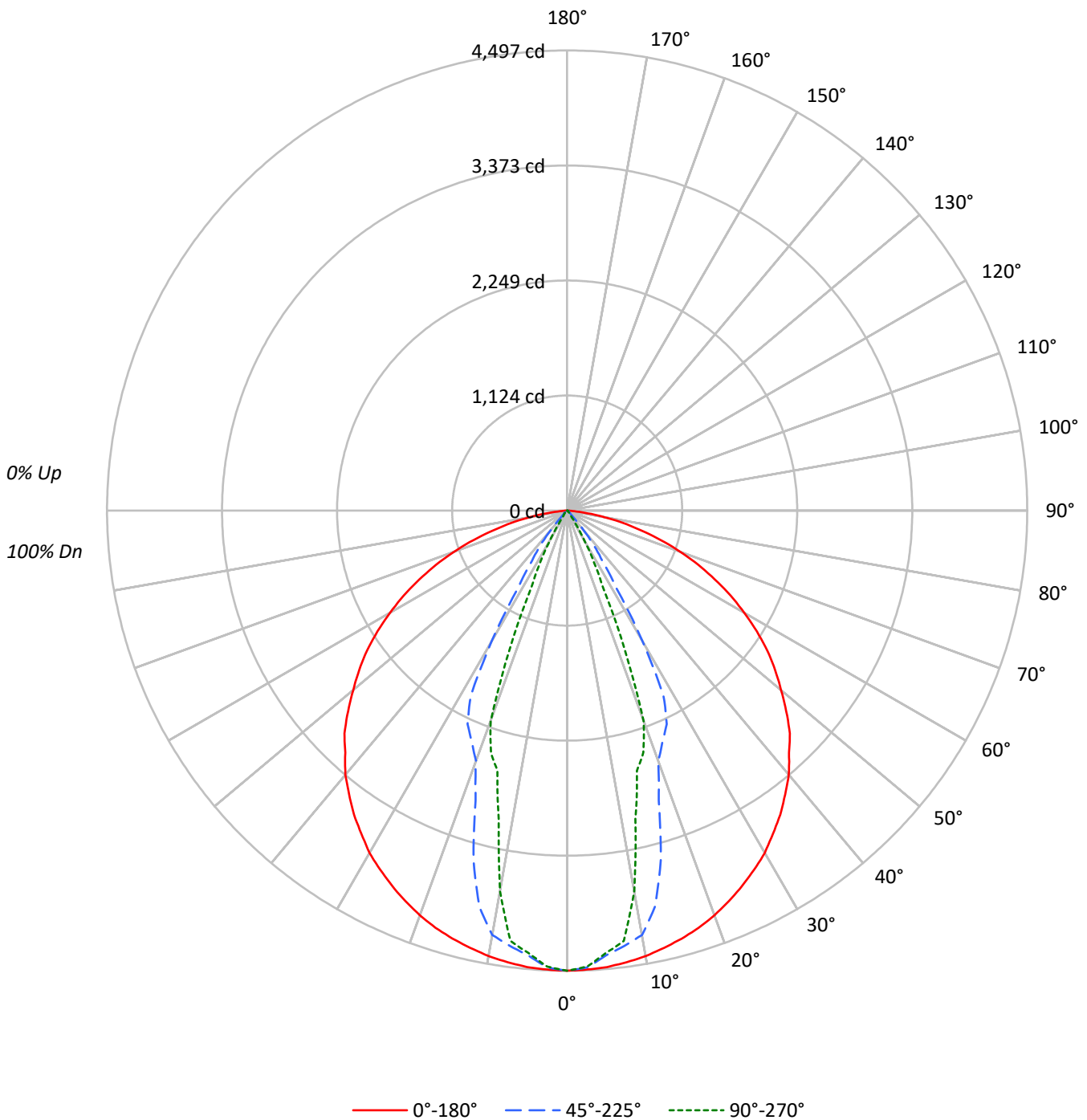
Lumens per Lamp: N/A  
Luminaire Lumens: 4523.0 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 33.5  
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



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48					48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13201	13201	13201
5°	13167	12750	12668
10°	13119	12346	11039
15°	13072	10476	7773
20°	13030	7864	6572
25°	12955	7145	2552
30°	12908	4728	1088
35°	12785	2012	240
40°	12653	887	171
45°	12468	212	79
50°	12104	130	43
55°	11809	83	44
60°	11246	75	45
65°	10502	77	48
70°	9440	82	52
75°	7753	95	57
80°	5501	109	52
85°	1760	115	63



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.1	9.1
10°-20°	985.9	21.8
20°-30°	1078.0	23.8
30°-40°	780.2	17.2
40°-50°	582.2	12.9
50°-60°	340.0	7.5
60°-70°	211.3	4.7
70°-80°	110.2	2.4
80°-90°	22.0	0.5
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°	2477.0	54.8
0°-40°	3257.2	72.0
0°-60°	4179.4	92.4
0°-90°	4523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4523.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4497	4497	4497	4497	4497	
5°	4478	4462	4362	4349	4340	426
15°	4330	4178	3535	2764	2632	1223
25°	4046	3435	2303	1201	828	1866
35°	3630	2214	599	130	72	2270
45°	3078	1447	56	38	21	2364
55°	2390	280	18	21	10	2128
65°	1593	23	13	13	8	1575
75°	747	14	11	9	7	801
85°	67	9	7	6	4	127
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4497.0	4497.0	4497.0	4497.0	4497.0
2.5°	4489.9	4495.5	4468.7	4468.7	4460.9
5°	4477.9	4461.6	4362.5	4349.1	4339.9
7.5°	4451.7	4388.0	4291.0	4273.4	4242.9
10°	4420.5	4308.7	4211.1	3959.2	3774.5
12.5°	4376.7	4242.9	3966.2	3342.1	3086.0
15°	4330.0	4177.8	3534.6	2764.0	2632.4
17.5°	4274.8	4091.5	2973.4	2534.7	2478.1
20°	4209.0	3951.4	2604.1	2376.9	2187.3
22.5°	4131.8	3734.1	2437.1	1975.7	1464.1
25°	4046.2	3434.8	2303.3	1200.8	827.9
27.5°	3956.3	3081.0	2038.7	729.6	565.4
30°	3862.9	2717.3	1471.2	522.9	341.1
32.5°	3743.3	2420.1	892.3	294.4	152.1
35°	3630.1	2214.2	598.7	129.5	72.2
37.5°	3499.2	2071.9	437.3	68.6	50.9
40°	3371.1	1933.2	249.8	51.7	48.8
42.5°	3209.8	1760.6	105.4	48.8	34.7
45°	3078.2	1447.1	55.9	38.2	21.2
47.5°	2904.1	990.7	37.5	29.7	13.4
50°	2729.3	612.1	31.8	23.4	10.6
52.5°	2563.0	405.5	23.4	21.9	9.9
55°	2389.7	280.2	18.4	21.2	9.9
57.5°	2197.2	138.0	15.6	20.5	9.2
60°	1998.3	53.8	14.9	19.8	9.2
62.5°	1801.6	29.7	14.2	16.3	8.5
65°	1592.9	23.4	13.4	12.7	8.5
67.5°	1386.2	19.1	12.7	12.0	8.5
70°	1175.4	17.0	12.0	10.6	7.8
72.5°	960.2	15.6	11.3	10.6	7.1
75°	747.3	14.2	11.3	9.2	7.1
77.5°	559.0	13.4	10.6	9.2	5.7
80°	371.5	12.0	9.9	7.8	5.0
82.5°	205.2	11.3	8.5	7.1	5.0
85°	67.2	9.2	7.1	6.4	4.2
87.5°	10.6	6.4	5.7	5.7	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)