

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-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 (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-L840-CD1-U  
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

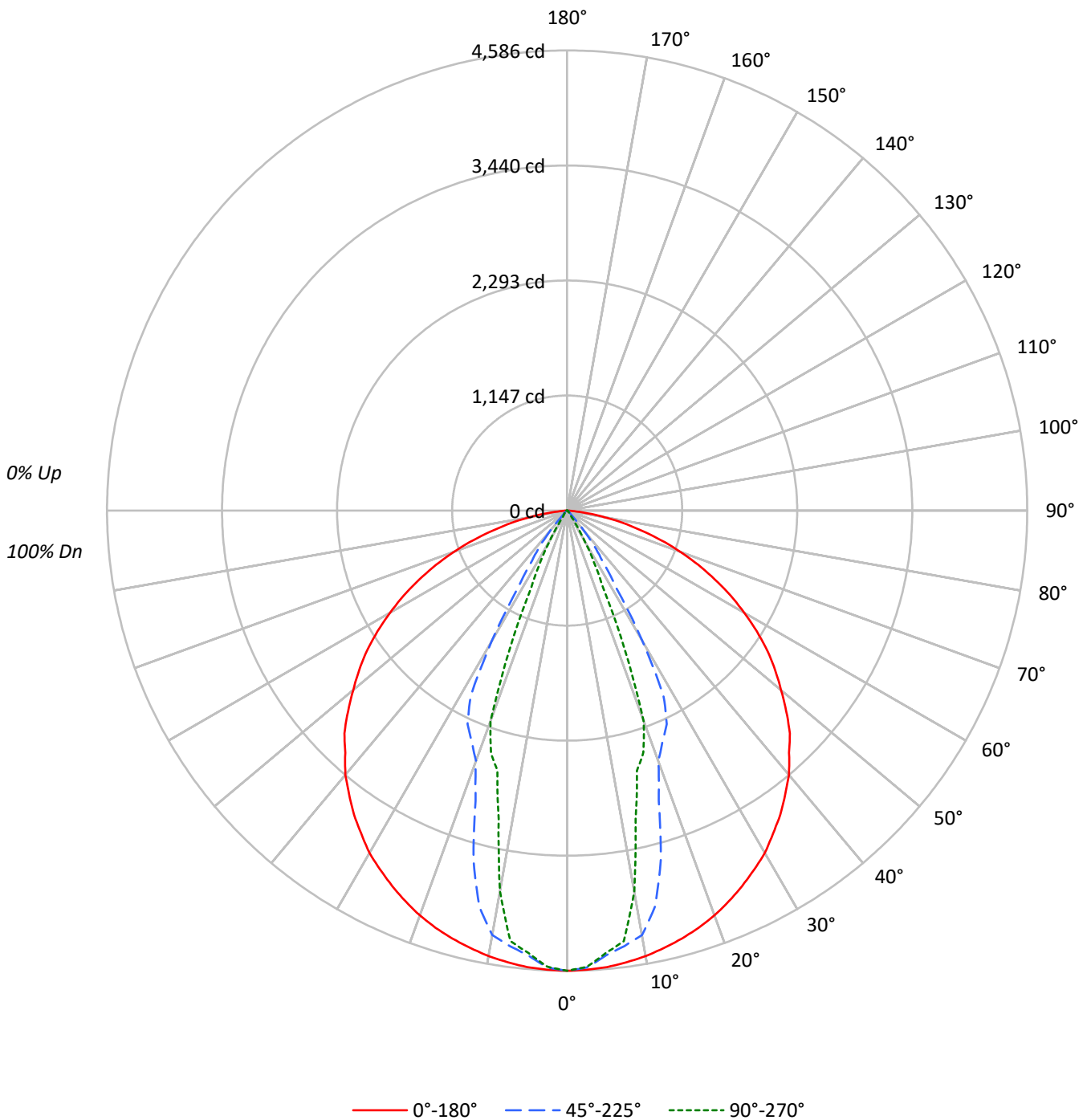
Lumens per Lamp: N/A  
Luminaire Lumens: 4613.0 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

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°	13464	13464	13464
5°	13429	13003	12920
10°	13380	12592	11259
15°	13332	10684	7928
20°	13290	8020	6703
25°	13213	7287	2603
30°	13165	4822	1109
35°	13040	2052	245
40°	12905	904	175
45°	12716	216	81
50°	12345	133	44
55°	12044	85	45
60°	11469	77	46
65°	10711	79	49
70°	9628	84	52
75°	7906	96	58
80°	5610	111	53
85°	1797	116	64



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.3	9.1
10°-20°	1005.6	21.8
20°-30°	1099.5	23.8
30°-40°	795.7	17.2
40°-50°	593.8	12.9
50°-60°	346.7	7.5
60°-70°	215.6	4.7
70°-80°	112.4	2.4
80°-90°	22.5	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°	2526.3	54.8
0°-40°	3322.0	72.0
0°-60°	4262.6	92.4
0°-90°	4613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4613.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4586	4586	4586	4586	4586	
5°	4567	4550	4449	4436	4426	434
15°	4416	4261	3605	2819	2685	1247
25°	4127	3503	2349	1225	844	1904
35°	3702	2258	611	132	74	2315
45°	3139	1476	57	39	22	2411
55°	2437	286	19	22	10	2170
65°	1625	24	14	13	9	1606
75°	762	14	12	9	7	817
85°	69	9	7	6	4	130
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4586.4	4586.4	4586.4	4586.4	4586.4
2.5°	4579.2	4585.0	4557.6	4557.6	4549.6
5°	4567.0	4550.4	4449.3	4435.6	4426.2
7.5°	4540.3	4475.3	4376.4	4358.4	4327.4
10°	4508.5	4394.5	4294.9	4037.9	3849.6
12.5°	4463.8	4327.4	4045.2	3408.6	3147.4
15°	4416.1	4261.0	3604.9	2819.0	2684.7
17.5°	4359.8	4172.9	3032.6	2585.2	2527.4
20°	4292.7	4030.0	2655.9	2424.2	2230.8
22.5°	4214.0	3808.4	2485.6	2015.0	1493.2
25°	4126.7	3503.2	2349.2	1224.7	844.4
27.5°	4035.1	3142.3	2079.2	744.1	576.6
30°	3939.8	2771.4	1500.4	533.3	347.9
32.5°	3817.8	2468.2	910.1	300.2	155.2
35°	3702.4	2258.2	610.6	132.1	73.6
37.5°	3568.8	2113.2	446.0	70.0	52.0
40°	3438.2	1971.7	254.8	52.7	49.8
42.5°	3273.7	1795.6	107.5	49.8	35.4
45°	3139.4	1475.9	57.0	39.0	21.7
47.5°	2961.9	1010.4	38.3	30.3	13.7
50°	2783.6	624.3	32.5	23.8	10.8
52.5°	2614.0	413.5	23.8	22.4	10.1
55°	2437.2	285.8	18.8	21.7	10.1
57.5°	2240.9	140.7	15.9	20.9	9.4
60°	2038.1	54.8	15.2	20.2	9.4
62.5°	1837.5	30.3	14.4	16.6	8.7
65°	1624.6	23.8	13.7	13.0	8.7
67.5°	1413.8	19.5	13.0	12.3	8.7
70°	1198.8	17.3	12.3	10.8	7.9
72.5°	979.4	15.9	11.5	10.8	7.2
75°	762.1	14.4	11.5	9.4	7.2
77.5°	570.1	13.7	10.8	9.4	5.8
80°	378.9	12.3	10.1	7.9	5.1
82.5°	209.3	11.5	8.7	7.2	5.1
85°	68.6	9.4	7.2	6.5	4.3
87.5°	10.8	6.5	5.8	5.8	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)