

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-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-LD5-5-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**

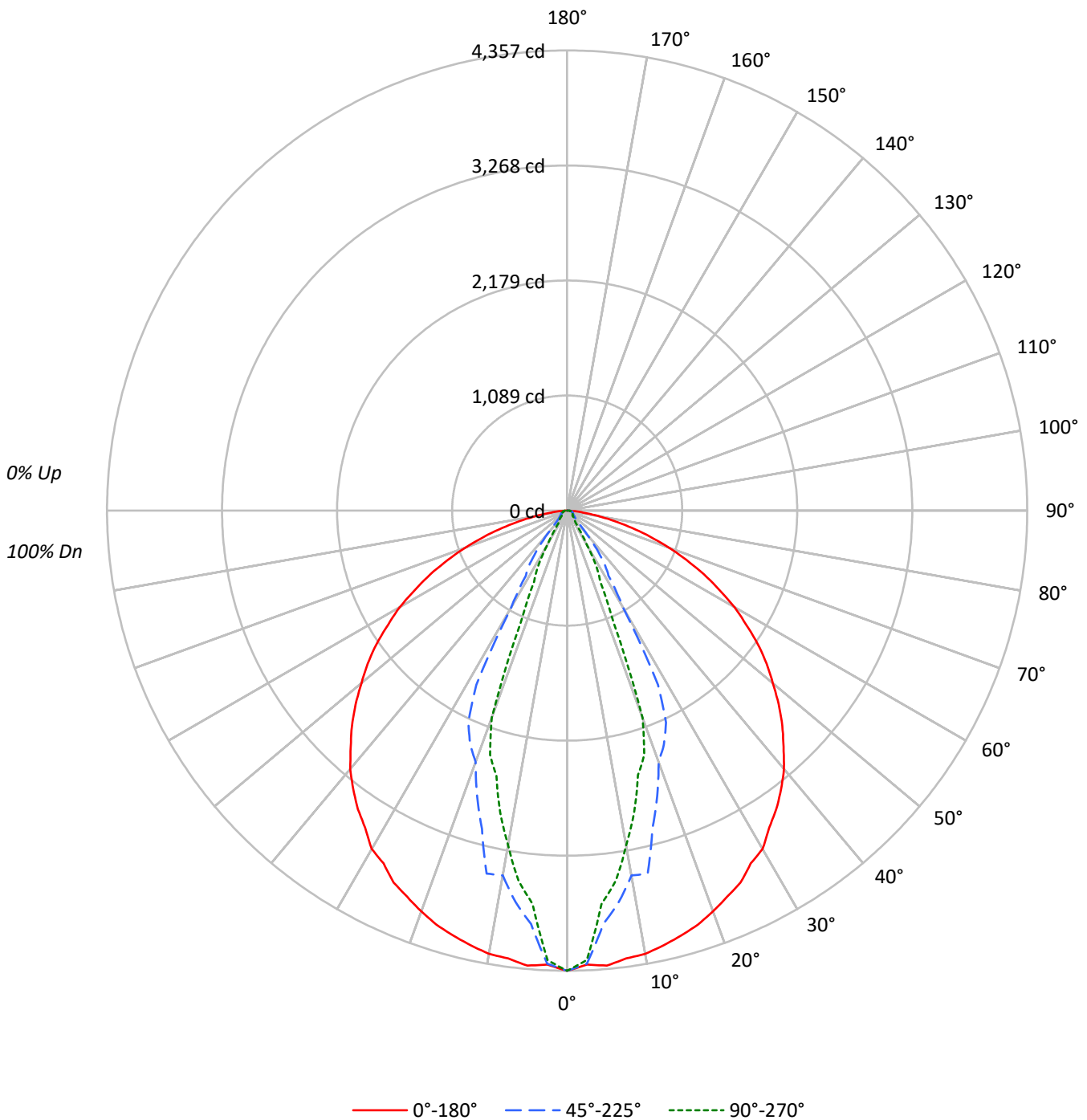
Lumens per Lamp: N/A  
Luminaire Lumens: 4326.0 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 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	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°	12791	12791	12791
5°	12715	11485	10918
10°	12647	10288	9421
15°	12578	9246	7656
20°	12501	7648	6272
25°	12441	6870	2282
30°	12364	3421	1189
35°	12160	2069	453
40°	11989	1034	395
45°	11673	448	292
50°	11276	379	266
55°	10888	316	279
60°	10301	328	272
65°	9420	356	278
70°	8221	370	289
75°	6572	408	318
80°	4430	480	351
85°	2363	567	439



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.2	8.6
10°-20°	902.3	20.9
20°-30°	982.9	22.7
30°-40°	756.1	17.5
40°-50°	558.7	12.9
50°-60°	351.5	8.1
60°-70°	230.2	5.3
70°-80°	128.9	3.0
80°-90°	43.1	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°	2257.4	52.2
0°-40°	3013.6	69.7
0°-60°	3923.8	90.7
0°-90°	4326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4326.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4357	4357	4357	4357	4357	
5°	4324	4291	3930	3698	3740	410
15°	4166	3622	3120	2708	2593	1176
25°	3886	2903	2215	986	740	1786
35°	3452	2140	616	196	136	2159
45°	2882	1140	118	100	78	2219
55°	2203	292	70	74	63	1963
65°	1429	72	62	55	49	1409
75°	634	54	49	44	39	680
85°	90	34	35	34	29	115
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4357.3	4357.3	4357.3	4357.3	4357.3
2.5°	4303.6	4305.0	4294.3	4272.8	4259.2
5°	4324.4	4290.7	3929.9	3698.0	3740.2
7.5°	4277.1	4103.2	3740.2	3567.0	3533.4
10°	4261.4	3815.4	3509.0	3450.3	3221.3
12.5°	4216.3	3640.7	3519.8	3149.7	2929.9
15°	4166.2	3622.1	3119.6	2708.0	2592.8
17.5°	4111.8	3458.9	2834.7	2481.8	2426.7
20°	4038.0	3354.4	2532.6	2281.4	2087.4
22.5°	3958.6	3304.3	2395.9	1486.8	1152.5
25°	3885.6	2903.4	2214.8	986.4	740.2
27.5°	3765.3	2871.2	1860.5	722.3	610.6
30°	3700.2	2573.4	1064.4	543.3	373.0
32.5°	3559.1	2340.1	728.7	330.0	222.6
35°	3452.5	2139.6	615.6	196.1	136.0
37.5°	3327.2	2007.2	460.3	134.6	118.1
40°	3194.1	1851.2	291.3	120.3	112.4
42.5°	3032.3	1667.2	172.5	113.1	96.6
45°	2882.0	1139.6	118.1	99.5	78.0
47.5°	2715.9	777.4	100.9	84.5	67.3
50°	2542.6	508.2	92.3	75.2	65.9
52.5°	2380.2	416.6	80.2	75.2	65.9
55°	2203.3	292.1	70.2	73.7	63.0
57.5°	2009.4	181.8	65.9	71.6	60.8
60°	1830.4	107.4	65.1	69.4	55.1
62.5°	1621.4	81.6	63.7	61.6	52.3
65°	1428.8	72.3	61.6	55.1	49.4
67.5°	1221.9	65.1	57.3	53.0	48.0
70°	1023.6	58.7	54.4	49.4	43.7
72.5°	824.6	56.6	51.5	46.5	41.5
75°	633.5	54.4	48.7	43.7	39.4
77.5°	461.0	50.8	45.8	42.2	37.2
80°	299.2	46.5	43.7	39.4	33.6
82.5°	166.8	42.2	40.1	36.5	32.2
85°	90.2	34.4	35.1	33.6	29.3
87.5°	16.5	24.3	30.1	29.3	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)