

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-LD5-7-N-WG-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-LD5-7-N-WG-UNV-L840-CD1-U  
Description: Metalux 4' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

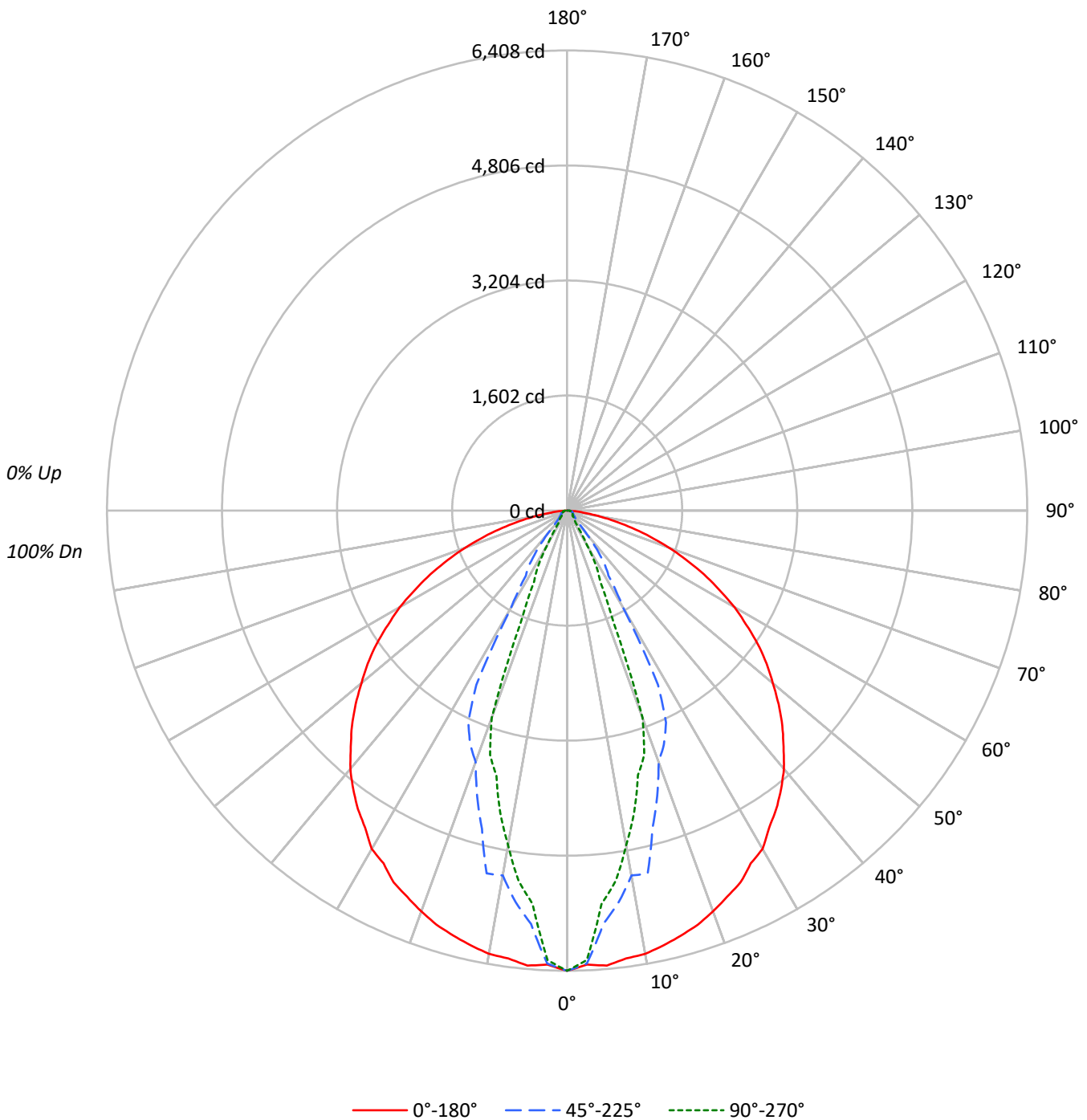
Lumens per Lamp: N/A  
Luminaire Lumens: 6362.0 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 50.4  
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	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°	18811	18811	18811
5°	18700	16891	16056
10°	18599	15130	13855
15°	18497	13598	11259
20°	18385	11248	9224
25°	18296	10104	3355
30°	18183	5031	1749
35°	17883	3043	666
40°	17631	1521	580
45°	17166	659	429
50°	16583	557	392
55°	16012	465	410
60°	15149	483	400
65°	13853	522	409
70°	12091	545	424
75°	9666	600	467
80°	6515	706	517
85°	3474	834	648



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.4	8.6
10°-20°	1327.0	20.9
20°-30°	1445.5	22.7
30°-40°	1112.0	17.5
40°-50°	821.6	12.9
50°-60°	517.0	8.1
60°-70°	338.5	5.3
70°-80°	189.5	3.0
80°-90°	63.5	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°	3319.9	52.2
0°-40°	4431.9	69.7
0°-60°	5770.5	90.7
0°-90°	6362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6362.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6408	6408	6408	6408	6408	
5°	6360	6310	5780	5438	5501	602
15°	6127	5327	4588	3982	3813	1730
25°	5714	4270	3257	1451	1088	2627
35°	5077	3147	905	288	200	3175
45°	4238	1676	174	146	115	3264
55°	3240	430	103	108	93	2887
65°	2101	106	90	81	73	2072
75°	932	80	72	64	58	1000
85°	133	50	52	50	43	169
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6408.0	6408.0	6408.0	6408.0	6408.0
2.5°	6329.1	6331.2	6315.4	6283.8	6263.8
5°	6359.6	6310.1	5779.5	5438.5	5500.6
7.5°	6290.1	6034.3	5500.6	5245.8	5196.3
10°	6267.0	5611.1	5160.5	5074.2	4737.3
12.5°	6200.6	5354.2	5176.3	4632.1	4308.9
15°	6126.9	5326.9	4587.8	3982.5	3813.0
17.5°	6046.9	5086.8	4168.8	3649.8	3568.8
20°	5938.5	4933.1	3724.6	3355.1	3069.8
22.5°	5821.6	4859.4	3523.5	2186.5	1694.9
25°	5714.3	4269.9	3257.2	1450.7	1088.5
27.5°	5537.4	4222.5	2736.1	1062.2	898.0
30°	5441.6	3784.6	1565.4	799.0	548.5
32.5°	5234.2	3441.4	1071.7	485.3	327.4
35°	5077.4	3146.6	905.4	288.5	200.0
37.5°	4893.1	2951.9	676.9	197.9	173.7
40°	4697.3	2722.4	428.5	176.9	165.3
42.5°	4459.4	2451.8	253.7	166.3	142.1
45°	4238.3	1676.0	173.7	146.3	114.7
47.5°	3994.1	1143.3	148.4	124.2	99.0
50°	3739.3	747.4	135.8	110.5	96.9
52.5°	3500.4	612.7	117.9	110.5	96.9
55°	3240.3	429.5	103.2	108.4	92.6
57.5°	2955.0	267.4	96.9	105.3	89.5
60°	2691.9	157.9	95.8	102.1	81.1
62.5°	2384.5	120.0	93.7	90.5	76.8
65°	2101.3	106.3	90.5	81.1	72.6
67.5°	1797.0	95.8	84.2	77.9	70.5
70°	1505.4	86.3	80.0	72.6	64.2
72.5°	1212.8	83.2	75.8	68.4	61.1
75°	931.7	80.0	71.6	64.2	57.9
77.5°	678.0	74.7	67.4	62.1	54.7
80°	440.0	68.4	64.2	57.9	49.5
82.5°	245.3	62.1	59.0	53.7	47.4
85°	132.6	50.5	51.6	49.5	43.2
87.5°	24.2	35.8	44.2	43.2	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)