

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-LD5-14-W-WG-UNV-L840-CD2-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 (P34174)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-14-W-WG-UNV-L840-CD2-U  
Description: Metalux 4' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

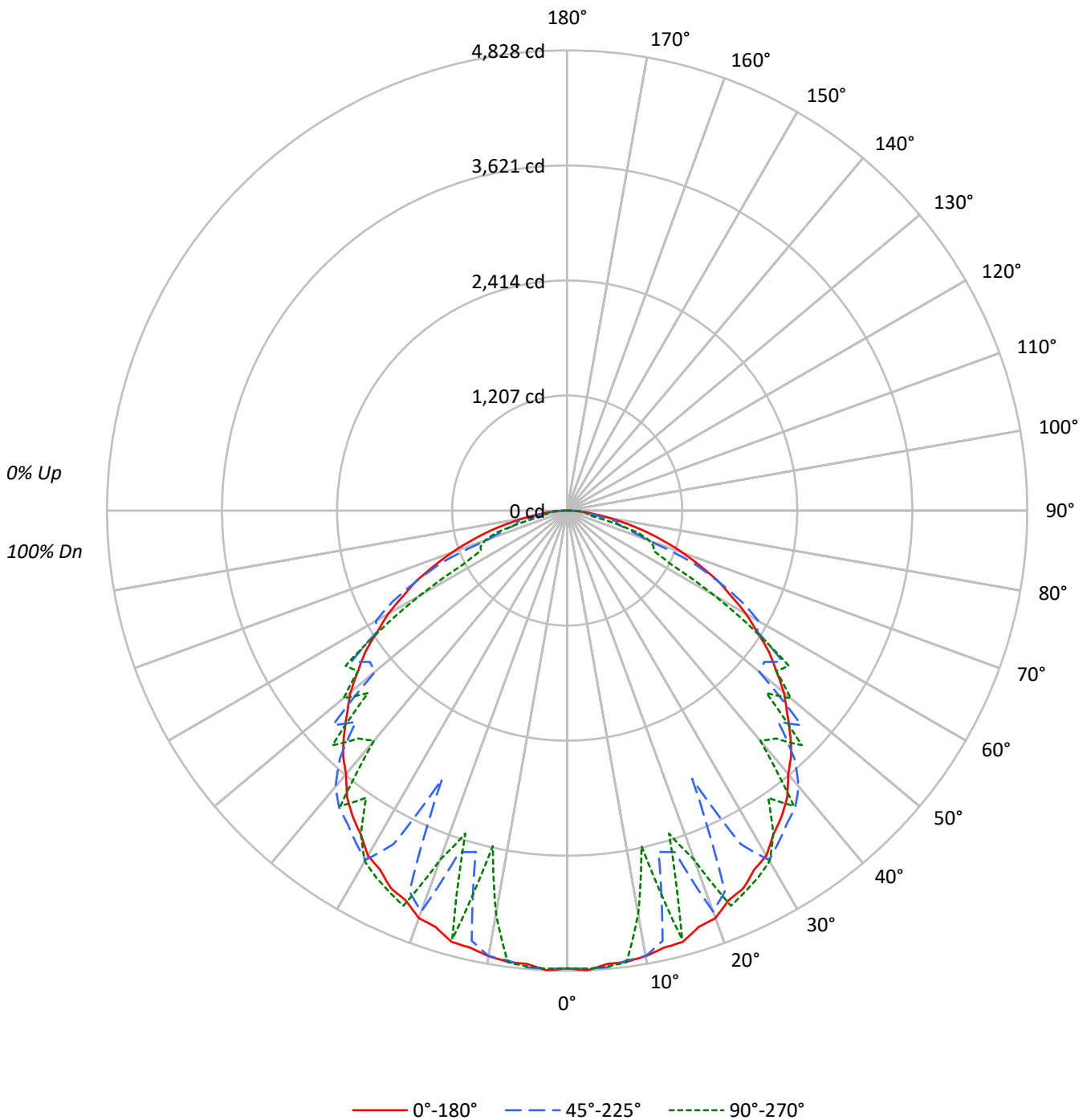
Lumens per Lamp: N/A  
Luminaire Lumens: 13206.0 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 102  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	14099	14099	14099
5°	14042	14059	14013
10°	14088	13911	12565
15°	14144	10987	13749
20°	14081	13520	11717
25°	14002	9629	13604
30°	13963	13609	13547
35°	13809	13493	12246
40°	13545	13418	11060
45°	13400	11881	13032
50°	13160	10794	12383
55°	12780	12439	12569
60°	12192	11683	8844
65°	11502	9960	5615
70°	10300	5940	6041
75°	8870	4566	4145
80°	6872	3769	2394
85°	4943	2895	2772



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.9	3.4
10°-20°	1214.7	9.2
20°-30°	1883.5	14.3
30°-40°	2414.7	18.3
40°-50°	2472.9	18.7
50°-60°	2344.9	17.8
60°-70°	1502.0	11.4
70°-80°	729.9	5.5
80°-90°	188.5	1.4
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°	3553.1	26.9
0°-40°	5967.9	45.2
0°-60°	10785.7	81.7
0°-90°	13206.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13206.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4803	4803	4803	4803	4803	
5°	4776	4789	4810	4822	4801	456
15°	4685	4685	3707	4360	4656	1316
25°	4373	3778	3104	4441	4414	2010
35°	3921	3946	4015	3911	3678	2449
45°	3308	3314	3133	3154	3482	2550
55°	2586	2667	2760	2661	2838	2298
65°	1745	1704	1725	1121	998	1709
75°	855	955	545	660	514	905
85°	189	166	179	189	185	214
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4802.7	4802.7	4802.7	4802.7	4802.7
2.5°	4827.7	4831.6	4810.4	4802.7	4812.3
5°	4775.7	4789.2	4810.4	4821.9	4800.7
7.5°	4773.8	4779.6	4762.2	4825.8	4779.6
10°	4746.8	4779.6	4744.9	4577.4	4296.2
12.5°	4696.8	4702.5	4623.6	3331.4	3604.9
15°	4685.2	4685.2	3707.0	4359.8	4656.3
17.5°	4581.2	4606.3	3757.0	4579.3	3552.9
20°	4548.5	4533.1	4477.2	3242.9	3899.5
22.5°	4425.2	4319.3	4323.2	4506.1	4488.8
25°	4373.2	3778.2	3104.2	4440.6	4413.7
27.5°	4250.0	3167.8	3943.8	4344.4	4338.6
30°	4178.7	3294.9	4234.6	4265.4	4248.1
32.5°	4028.5	3782.1	4128.7	4194.2	4026.6
35°	3920.7	3945.7	4015.1	3911.1	3678.1
37.5°	3791.7	3620.3	3928.4	3566.4	3909.2
40°	3608.7	2821.1	3780.1	3826.3	3150.4
42.5°	3479.7	2761.4	3529.8	2969.4	3244.8
45°	3308.3	3314.1	3133.1	3154.3	3481.6
47.5°	3129.2	3202.4	3333.4	3350.7	2834.6
50°	2967.5	3038.7	2630.5	2840.4	3063.8
52.5°	2765.3	2865.4	2609.3	2932.8	2765.3
55°	2586.2	2667.1	2759.5	2661.3	2838.5
57.5°	2357.0	2486.1	2362.8	2613.2	2307.0
60°	2166.4	2164.5	2316.6	2328.2	1790.9
62.5°	1937.2	1921.8	2060.5	1561.7	1240.1
65°	1744.7	1704.2	1725.4	1120.8	997.5
67.5°	1504.0	1334.5	1421.2	935.9	982.1
70°	1282.5	1274.8	872.3	649.0	914.7
72.5°	1063.0	1157.3	687.5	810.7	791.5
75°	855.0	955.1	545.0	660.5	514.2
77.5°	641.3	693.2	537.3	404.4	250.3
80°	464.1	327.4	342.8	229.2	229.2
82.5°	300.4	269.6	200.3	213.8	202.2
85°	188.7	165.6	179.1	188.7	184.9
87.5°	65.5	113.6	142.5	138.6	127.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)