

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-TWB-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 (P34175)  
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-TWB-UNV-L840-CD2-U  
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

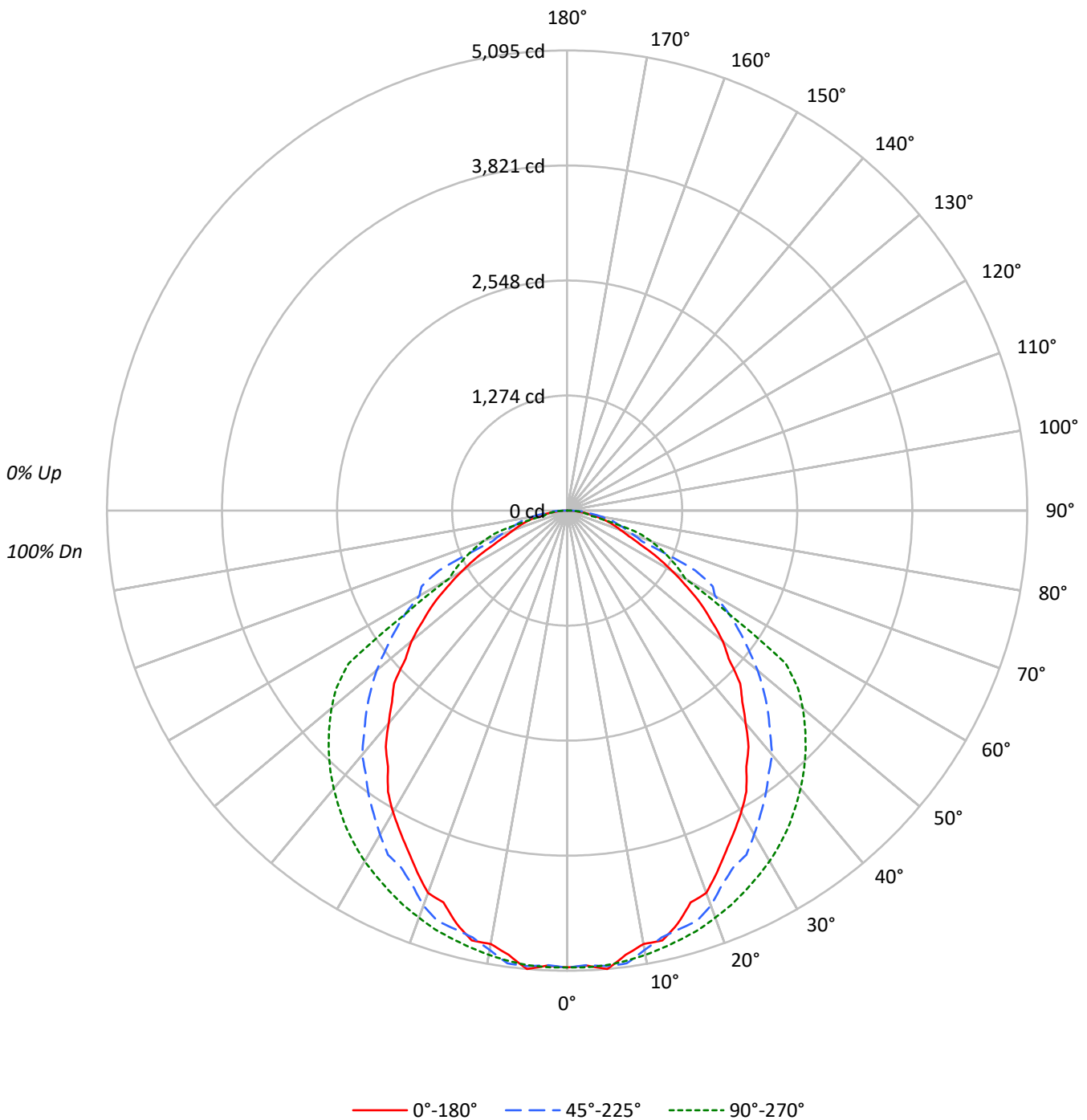
Lumens per Lamp: N/A  
Luminaire Lumens: 12757.0 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

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	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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					72				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55					53				
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49					47				
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43					41				
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38					36				
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34					32				
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31					29				
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28					27				

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

	0°	45°	90°
0°	14850	14850	14850
5°	14982	14796	14743
10°	14459	14481	14609
15°	14289	14217	14494
20°	13950	14055	14413
25°	13324	13511	14340
30°	12882	13312	14296
35°	12181	12884	14227
40°	11543	12530	14116
45°	10974	11924	13976
50°	9974	11299	13767
55°	8954	10503	13072
60°	7585	9526	7474
65°	5954	9037	7068
70°	5057	5311	6498
75°	4774	4807	4098
80°	4276	4213	2414
85°	3227	3113	2049



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.2	3.8
10°-20°	1360.6	10.7
20°-30°	2030.8	15.9
30°-40°	2417.3	18.9
40°-50°	2444.1	19.2
50°-60°	2059.3	16.1
60°-70°	1189.9	9.3
70°-80°	587.4	4.6
80°-90°	188.4	1.5
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°	3870.6	30.3
0°-40°	6287.9	49.3
0°-60°	10791.3	84.6
0°-90°	12757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12757.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5059	5059	5059	5059	5059	
5°	5095	5107	5062	5037	5051	476
15°	4733	4806	4797	4926	4908	1329
25°	4161	4238	4356	4568	4652	1921
35°	3458	3599	3834	4159	4273	2176
45°	2709	2792	3145	3522	3734	2056
55°	1812	1954	2330	2779	2952	1608
65°	903	1102	1566	1177	1256	930
75°	460	566	574	632	508	484
85°	123	152	193	229	137	141
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5058.6	5058.6	5058.6	5058.6	5058.6
2.5°	5043.2	5049.0	5037.4	5066.3	5060.6
5°	5095.2	5106.8	5062.5	5037.4	5050.9
7.5°	4962.3	4987.4	5056.7	5024.0	5027.8
10°	4871.8	4875.7	4939.2	5041.3	4995.1
12.5°	4875.7	4868.0	4839.1	5014.3	4954.6
15°	4733.2	4806.4	4796.7	4925.8	4908.4
17.5°	4550.3	4621.5	4765.9	4837.2	4862.2
20°	4506.0	4480.9	4654.2	4723.6	4796.7
22.5°	4334.6	4434.7	4482.9	4636.9	4731.3
25°	4161.3	4238.3	4355.8	4567.6	4652.3
27.5°	4005.3	4088.1	4296.1	4502.1	4569.5
30°	3855.1	3932.1	4142.0	4419.3	4482.9
32.5°	3691.4	3787.7	3986.1	4319.2	4382.7
35°	3458.4	3599.0	3833.9	4159.4	4273.0
37.5°	3298.6	3391.0	3666.4	3989.9	4147.8
40°	3075.2	3223.5	3529.7	3859.0	4020.7
42.5°	2869.2	3015.5	3323.6	3695.3	3884.0
45°	2709.4	2792.2	3144.6	3522.0	3733.8
47.5°	2424.4	2634.3	2950.1	3337.1	3574.0
50°	2249.1	2393.6	2753.6	3160.0	3406.4
52.5°	2021.9	2183.7	2532.2	2963.5	3219.7
55°	1812.0	1954.5	2330.0	2778.7	2952.0
57.5°	1573.2	1756.2	2120.1	2568.8	2106.6
60°	1347.9	1530.9	1889.0	1735.0	1513.5
62.5°	1132.3	1294.0	1817.8	1305.6	1388.4
65°	903.1	1101.5	1565.5	1176.6	1255.5
67.5°	741.4	880.0	903.1	1053.3	1122.6
70°	629.7	697.1	779.9	933.9	984.0
72.5°	546.9	575.8	677.8	829.9	837.6
75°	460.2	566.1	573.8	631.6	508.4
77.5°	367.8	456.4	496.8	367.8	260.0
80°	288.8	310.0	383.2	323.5	231.1
82.5°	200.3	229.1	265.7	279.2	190.6
85°	123.2	152.1	192.6	229.1	136.7
87.5°	52.0	82.8	132.9	177.2	75.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)