

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-N-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 (P34185)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-14-N-TWB-UNV-L840-CD2-U  
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

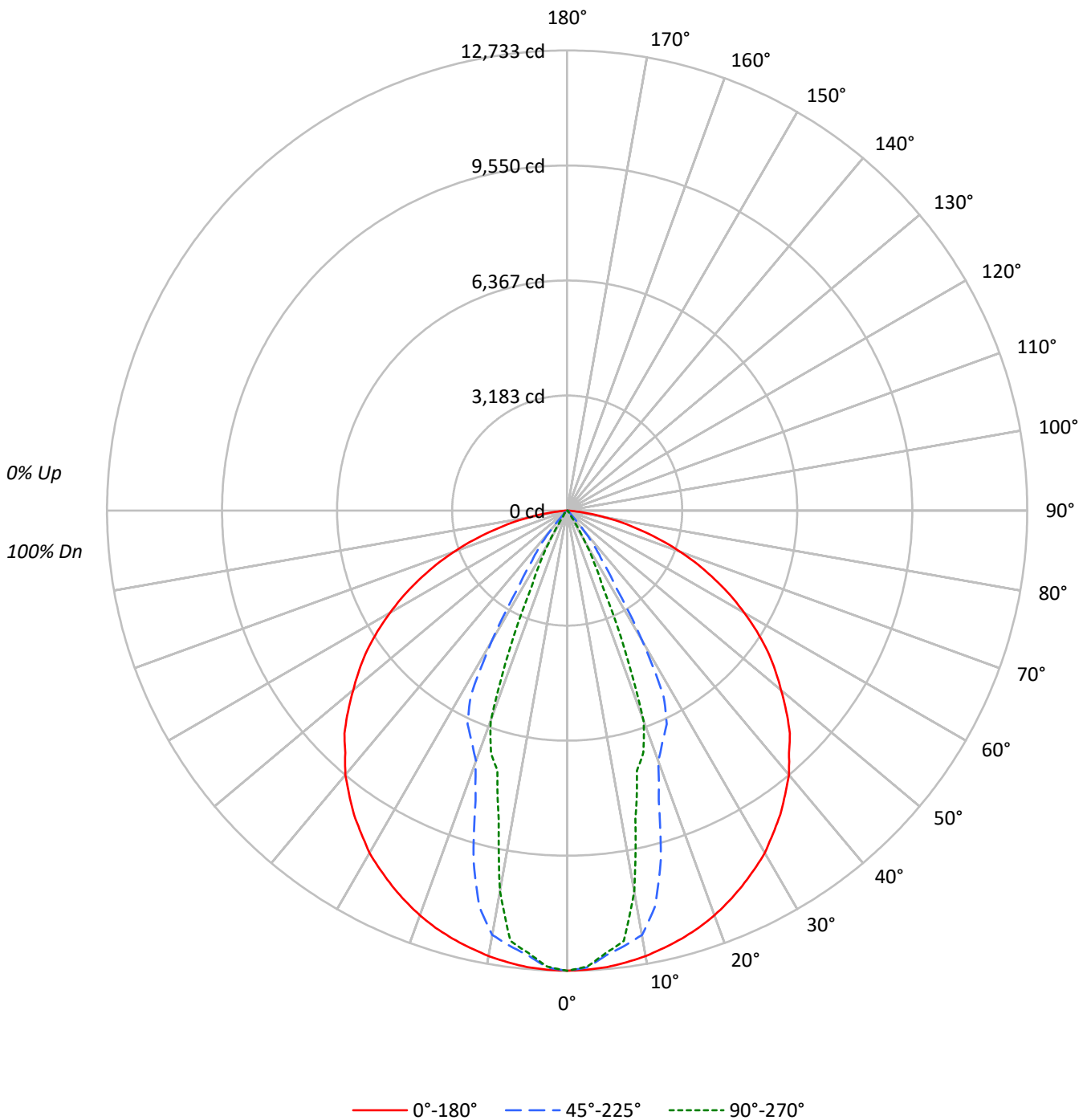
Lumens per Lamp: N/A  
Luminaire Lumens: 12807.0 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 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	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°	37380	37380	37380
5°	37282	36101	35870
10°	37148	34959	31257
15°	37013	29663	22009
20°	36896	22266	18609
25°	36682	20231	7226
30°	36550	13387	3080
35°	36203	5697	681
40°	35828	2511	486
45°	35302	600	225
50°	34273	370	122
55°	33437	235	124
60°	31842	212	128
65°	29735	220	135
70°	26730	232	145
75°	21951	269	161
80°	15575	309	146
85°	4985	323	180



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1169.7	9.1
10°-20°	2791.7	21.8
20°-30°	3052.4	23.8
30°-40°	2209.0	17.2
40°-50°	1648.6	12.9
50°-60°	962.6	7.5
60°-70°	598.5	4.7
70°-80°	312.1	2.4
80°-90°	62.4	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°	7013.8	54.8
0°-40°	9222.9	72.0
0°-60°	11834.1	92.4
0°-90°	12807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12807.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12733	12733	12733	12733	12733	
5°	12679	12633	12353	12314	12288	###
15°	12260	11830	10008	7826	7454	3462
25°	11457	9726	6522	3400	2344	5285
35°	10279	6270	1695	367	204	6426
45°	8716	4098	158	108	60	6693
55°	6766	794	52	60	28	6024
65°	4510	66	38	36	24	4459
75°	2116	40	32	26	20	2268
85°	190	26	20	18	12	361
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12733.3	12733.3	12733.3	12733.3	12733.3
2.5°	12713.2	12729.3	12653.1	12653.1	12631.1
5°	12679.2	12633.1	12352.6	12314.5	12288.5
7.5°	12605.0	12424.7	12150.2	12100.1	12014.0
10°	12516.9	12200.3	11923.8	11210.5	10687.5
12.5°	12392.7	12014.0	11230.5	9463.3	8738.0
15°	12260.4	11829.6	10008.3	7826.3	7453.6
17.5°	12104.1	11585.2	8419.4	7177.1	7016.8
20°	11917.8	11188.5	7373.5	6730.3	6193.3
22.5°	11699.4	10573.3	6900.6	5594.2	4145.6
25°	11456.9	9725.8	6521.9	3400.2	2344.3
27.5°	11202.5	8723.9	5772.6	2065.8	1600.9
30°	10938.0	7694.1	4165.6	1480.7	965.8
32.5°	10599.4	6852.5	2526.6	833.5	430.8
35°	10278.8	6269.5	1695.1	366.7	204.4
37.5°	9908.1	5866.7	1238.3	194.4	144.3
40°	9545.4	5474.0	707.3	146.3	138.3
42.5°	9088.6	4985.1	298.5	138.3	98.2
45°	8715.9	4097.5	158.3	108.2	60.1
47.5°	8223.0	2805.1	106.2	84.2	38.1
50°	7728.1	1733.2	90.2	66.1	30.1
52.5°	7257.3	1148.1	66.1	62.1	28.1
55°	6766.4	793.5	52.1	60.1	28.1
57.5°	6221.4	390.7	44.1	58.1	26.0
60°	5658.3	152.3	42.1	56.1	26.0
62.5°	5101.3	84.2	40.1	46.1	24.0
65°	4510.2	66.1	38.1	36.1	24.0
67.5°	3925.2	54.1	36.1	34.1	24.0
70°	3328.1	48.1	34.1	30.1	22.0
72.5°	2719.0	44.1	32.1	30.1	20.0
75°	2115.9	40.1	32.1	26.0	20.0
77.5°	1582.9	38.1	30.1	26.0	16.0
80°	1051.9	34.1	28.1	22.0	14.0
82.5°	581.1	32.1	24.0	20.0	14.0
85°	190.3	26.0	20.0	18.0	12.0
87.5°	30.1	18.0	16.0	16.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)