

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-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-UNV-L840-CD2-U  
Description: Metalux 4' ILED WITH OPEN NARROW DISTRIBUTION  
Light Source: (1) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

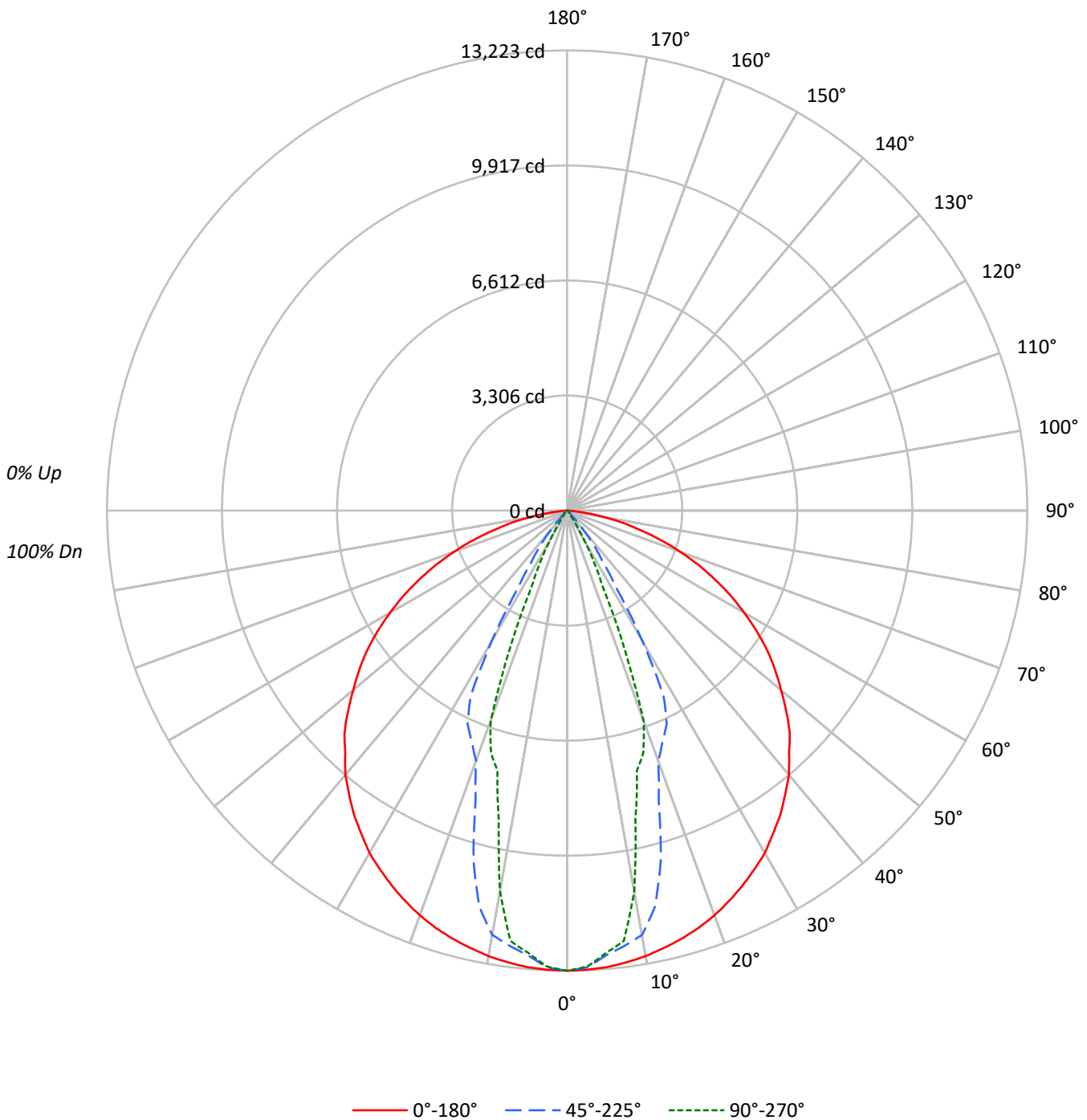
Lumens per Lamp: N/A  
Luminaire Lumens: 13300.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 102  
Input Voltage (V):  
Input Current (Ain): 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°	38819	38819	38819
5°	38717	37491	37250
10°	38578	36305	32460
15°	38438	30805	22857
20°	38316	23124	19325
25°	38095	21009	7504
30°	37956	13903	3198
35°	37596	5916	706
40°	37207	2607	504
45°	36661	623	234
50°	35592	384	126
55°	34724	244	129
60°	33069	220	134
65°	30880	228	141
70°	27758	241	151
75°	22796	279	168
80°	16174	320	152
85°	5179	336	187



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1214.7	9.1
10°-20°	2899.2	21.8
20°-30°	3169.9	23.8
30°-40°	2294.1	17.2
40°-50°	1712.0	12.9
50°-60°	999.7	7.5
60°-70°	621.5	4.7
70°-80°	324.1	2.4
80°-90°	64.8	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°	7283.8	54.8
0°-40°	9577.9	72.0
0°-60°	12289.6	92.4
0°-90°	13300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13300.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13223	13223	13223	13223	13223	
5°	13167	13119	12828	12788	12762	###
15°	12732	12285	10394	8128	7740	3595
25°	11898	10100	6773	3531	2434	5488
35°	10674	6511	1760	381	212	6674
45°	9051	4255	164	112	62	6950
55°	7027	824	54	62	29	6256
65°	4684	69	40	38	25	4631
75°	2197	42	33	27	21	2355
85°	198	27	21	19	12	374
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13223.4	13223.4	13223.4	13223.4	13223.4
2.5°	13202.6	13219.3	13140.2	13140.2	13117.3
5°	13167.3	13119.4	12828.1	12788.5	12761.5
7.5°	13090.3	12903.0	12617.9	12565.9	12476.4
10°	12998.7	12669.9	12382.8	11642.0	11098.9
12.5°	12869.7	12476.4	11662.8	9827.6	9074.3
15°	12732.4	12285.0	10393.6	8127.6	7740.5
17.5°	12570.1	12031.1	8743.5	7453.4	7286.9
20°	12376.6	11619.1	7657.3	6989.4	6431.7
22.5°	12149.7	10980.3	7166.2	5809.6	4305.2
25°	11898.0	10100.2	6773.0	3531.1	2434.5
27.5°	11633.7	9059.8	5994.8	2145.3	1662.6
30°	11359.0	7990.2	4326.0	1537.7	1002.9
32.5°	11007.4	7116.3	2623.9	865.6	447.4
35°	10674.5	6510.8	1760.4	380.8	212.2
37.5°	10289.5	6092.6	1285.9	201.8	149.8
40°	9912.9	5684.7	734.5	151.9	143.6
42.5°	9438.5	5177.0	310.0	143.6	102.0
45°	9051.4	4255.2	164.4	112.4	62.4
47.5°	8539.6	2913.1	110.3	87.4	39.5
50°	8025.6	1799.9	93.6	68.7	31.2
52.5°	7536.6	1192.3	68.7	64.5	29.1
55°	7026.8	824.0	54.1	62.4	29.1
57.5°	6460.9	405.8	45.8	60.3	27.1
60°	5876.2	158.1	43.7	58.3	27.1
62.5°	5297.7	87.4	41.6	47.9	25.0
65°	4683.9	68.7	39.5	37.5	25.0
67.5°	4076.3	56.2	37.5	35.4	25.0
70°	3456.2	49.9	35.4	31.2	22.9
72.5°	2823.6	45.8	33.3	31.2	20.8
75°	2197.3	41.6	33.3	27.1	20.8
77.5°	1643.8	39.5	31.2	27.1	16.6
80°	1092.4	35.4	29.1	22.9	14.6
82.5°	603.4	33.3	25.0	20.8	14.6
85°	197.7	27.1	20.8	18.7	12.5
87.5°	31.2	18.7	16.6	16.6	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)