

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: **8ILED-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: 8ILED-LD5-14-N-TWB-UNV-L840-CD2-U  
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

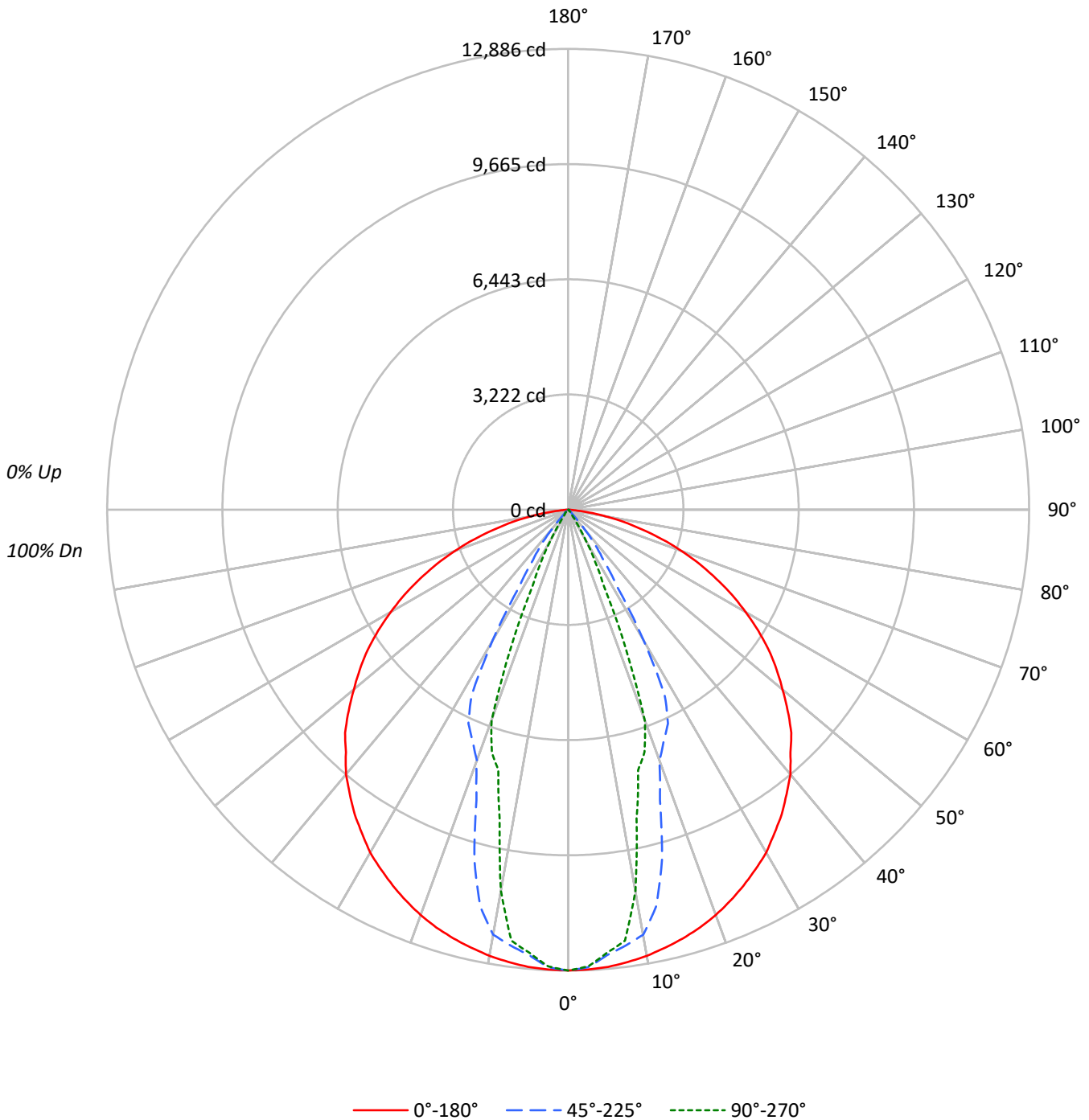
Lumens per Lamp: N/A  
Luminaire Lumens: 12961.0 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 100.8  
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°	18915	18915	18915
5°	18886	18282	18150
10°	18839	17717	15816
15°	18792	15045	11137
20°	18754	11302	9416
25°	18669	10277	3656
30°	18627	6807	1558
35°	18478	2899	344
40°	18318	1279	246
45°	18084	306	114
50°	17597	189	61
55°	17216	120	63
60°	16454	109	65
65°	15439	113	68
70°	13975	120	74
75°	11602	139	82
80°	8403	161	74
85°	2838	172	91



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1183.7	9.1
10°-20°	2825.3	21.8
20°-30°	3089.1	23.8
30°-40°	2235.6	17.2
40°-50°	1668.4	12.9
50°-60°	974.2	7.5
60°-70°	605.6	4.7
70°-80°	315.9	2.4
80°-90°	63.1	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
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0°-30°	7098.1	54.8
0°-40°	9333.7	72.0
0°-60°	11976.4	92.4
0°-90°	12961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12886	12886	12886	12886	12886	
5°	12832	12785	12501	12463	12436	###
15°	12408	11972	10129	7920	7543	3504
25°	11595	9843	6600	3441	2372	5348
35°	10402	6345	1716	371	207	6504
45°	8821	4147	160	110	61	6773
55°	6848	803	53	61	28	6097
65°	4564	67	38	36	24	4513
75°	2141	41	32	26	20	2295
85°	193	26	20	18	12	365
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12886.4	12886.4	12886.4	12886.4	12886.4
2.5°	12866.1	12882.3	12805.3	12805.3	12783.0
5°	12831.6	12785.0	12501.1	12462.6	12436.2
7.5°	12756.6	12574.1	12296.3	12245.6	12158.4
10°	12667.4	12347.0	12067.2	11345.3	10816.0
12.5°	12541.7	12158.4	11365.6	9577.1	8843.0
15°	12407.8	11971.9	10128.6	7920.4	7543.3
17.5°	12249.7	11724.5	8520.6	7263.4	7101.2
20°	12061.1	11323.0	7462.1	6811.2	6267.8
22.5°	11840.1	10700.5	6983.6	5661.5	4195.4
25°	11594.7	9842.7	6600.3	3441.1	2372.5
27.5°	11337.2	8828.8	5842.0	2090.6	1620.2
30°	11069.5	7786.6	4215.7	1498.5	977.4
32.5°	10726.8	6934.9	2557.0	843.5	436.0
35°	10402.4	6344.8	1715.5	371.1	206.8
37.5°	10027.3	5937.3	1253.2	196.7	146.0
40°	9660.2	5539.8	715.8	148.0	139.9
42.5°	9197.9	5045.1	302.1	139.9	99.4
45°	8820.7	4146.8	160.2	109.5	60.8
47.5°	8321.9	2838.9	107.5	85.2	38.5
50°	7821.1	1754.0	91.2	66.9	30.4
52.5°	7344.5	1161.9	66.9	62.9	28.4
55°	6847.7	803.0	52.7	60.8	28.4
57.5°	6296.2	395.4	44.6	58.8	26.4
60°	5726.4	154.1	42.6	56.8	26.4
62.5°	5162.7	85.2	40.6	46.6	24.3
65°	4564.5	66.9	38.5	36.5	24.3
67.5°	3972.4	54.7	36.5	34.5	24.3
70°	3368.1	48.7	34.5	30.4	22.3
72.5°	2751.7	44.6	32.4	30.4	20.3
75°	2141.3	40.6	32.4	26.4	20.3
77.5°	1601.9	38.5	30.4	26.4	16.2
80°	1064.6	34.5	28.4	22.3	14.2
82.5°	588.0	32.4	24.3	20.3	14.2
85°	192.6	26.4	20.3	18.2	12.2
87.5°	30.4	18.2	16.2	16.2	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)