

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-WG-UNV-L835-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 (P34186)  
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-WG-UNV-L835-CD2-U  
Description: Metalux 8' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

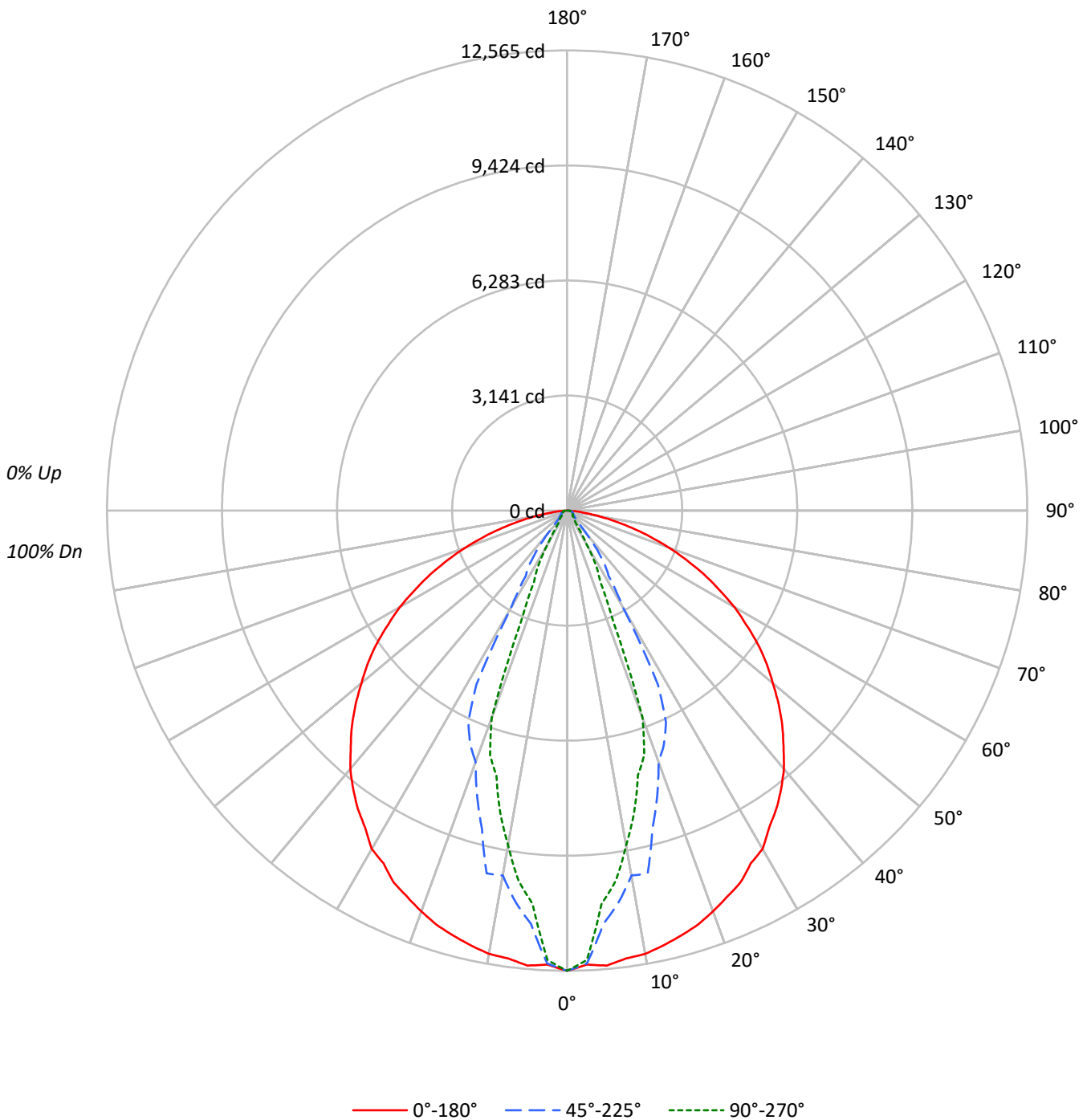
Lumens per Lamp: N/A  
Luminaire Lumens: 12475.0 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 100.8  
Input Voltage (V):  
Input Current (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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49					49			
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

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

	0°	45°	90°
0°	18443	18443	18443
5°	18354	16573	15742
10°	18275	14857	13584
15°	18195	13362	11039
20°	18107	11062	9043
25°	18042	9945	3290
30°	17955	4957	1715
35°	17685	3000	653
40°	17465	1502	569
45°	17039	651	421
50°	16498	552	384
55°	15974	461	402
60°	15167	480	392
65°	13937	521	401
70°	12248	545	416
75°	9899	603	457
80°	6811	715	507
85°	3833	859	634



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1073.3	8.6
10°-20°	2602.0	20.9
20°-30°	2834.5	22.7
30°-40°	2180.5	17.5
40°-50°	1611.1	12.9
50°-60°	1013.7	8.1
60°-70°	663.8	5.3
70°-80°	371.6	3.0
80°-90°	124.4	1.0
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°	6509.8	52.2
0°-40°	8690.3	69.7
0°-60°	11315.1	90.7
0°-90°	12475.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12475.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12565	12565	12565	12565	12565	
5°	12470	12373	11333	10664	10786	###
15°	12014	10445	8996	7809	7477	3392
25°	11205	8373	6387	2845	2134	5151
35°	9956	6170	1775	566	392	6226
45°	8311	3286	341	287	225	6400
55°	6354	842	202	213	182	5661
65°	4120	208	178	159	142	4064
75°	1827	157	140	126	114	1960
85°	260	99	101	97	85	332
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12565.2	12565.2	12565.2	12565.2	12565.2
2.5°	12410.4	12414.6	12383.6	12321.7	12282.4
5°	12470.3	12373.3	11332.9	10664.0	10785.8
7.5°	12334.0	11832.4	10785.8	10286.3	10189.3
10°	12288.6	11002.6	10119.1	9949.8	9289.2
12.5°	12158.6	10498.9	10150.0	9082.8	8449.1
15°	12014.1	10445.2	8996.1	7809.2	7476.8
17.5°	11857.2	9974.6	8174.5	7156.8	6997.9
20°	11644.6	9673.2	7303.4	6578.8	6019.4
22.5°	11415.4	9528.7	6909.1	4287.5	3323.5
25°	11204.9	8372.7	6386.9	2844.6	2134.5
27.5°	10858.1	8279.8	5365.1	2082.9	1760.8
30°	10670.2	7421.1	3069.6	1566.8	1075.5
32.5°	10263.6	6748.1	2101.4	951.6	642.0
35°	9956.0	6170.1	1775.3	565.6	392.2
37.5°	9594.8	5788.2	1327.3	388.1	340.6
40°	9210.8	5338.2	840.2	346.8	324.1
42.5°	8744.3	4807.7	497.5	326.2	278.7
45°	8310.8	3286.3	340.6	286.9	225.0
47.5°	7831.9	2241.8	291.1	243.6	194.0
50°	7332.3	1465.6	266.3	216.7	189.9
52.5°	6863.7	1201.4	231.2	216.7	189.9
55°	6353.8	842.2	202.3	212.6	181.7
57.5°	5794.4	524.3	189.9	206.4	175.5
60°	5278.4	309.6	187.8	200.2	158.9
62.5°	4675.6	235.3	183.7	177.5	150.7
65°	4120.3	208.5	177.5	158.9	142.4
67.5°	3523.7	187.8	165.1	152.8	138.3
70°	2951.9	169.3	156.9	142.4	125.9
72.5°	2378.0	163.1	148.6	134.2	119.7
75°	1826.9	156.9	140.4	125.9	113.5
77.5°	1329.4	146.6	132.1	121.8	107.3
80°	862.9	134.2	125.9	113.5	97.0
82.5°	481.0	121.8	115.6	105.3	92.9
85°	260.1	99.1	101.1	97.0	84.6
87.5°	47.5	70.2	86.7	84.6	74.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)