

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-LD5-22-W-CLWG-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 (P34178)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-22-W-CLWG-UNV-L840-CD2-U  
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD  
DISTRIBUION

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

**Summary**

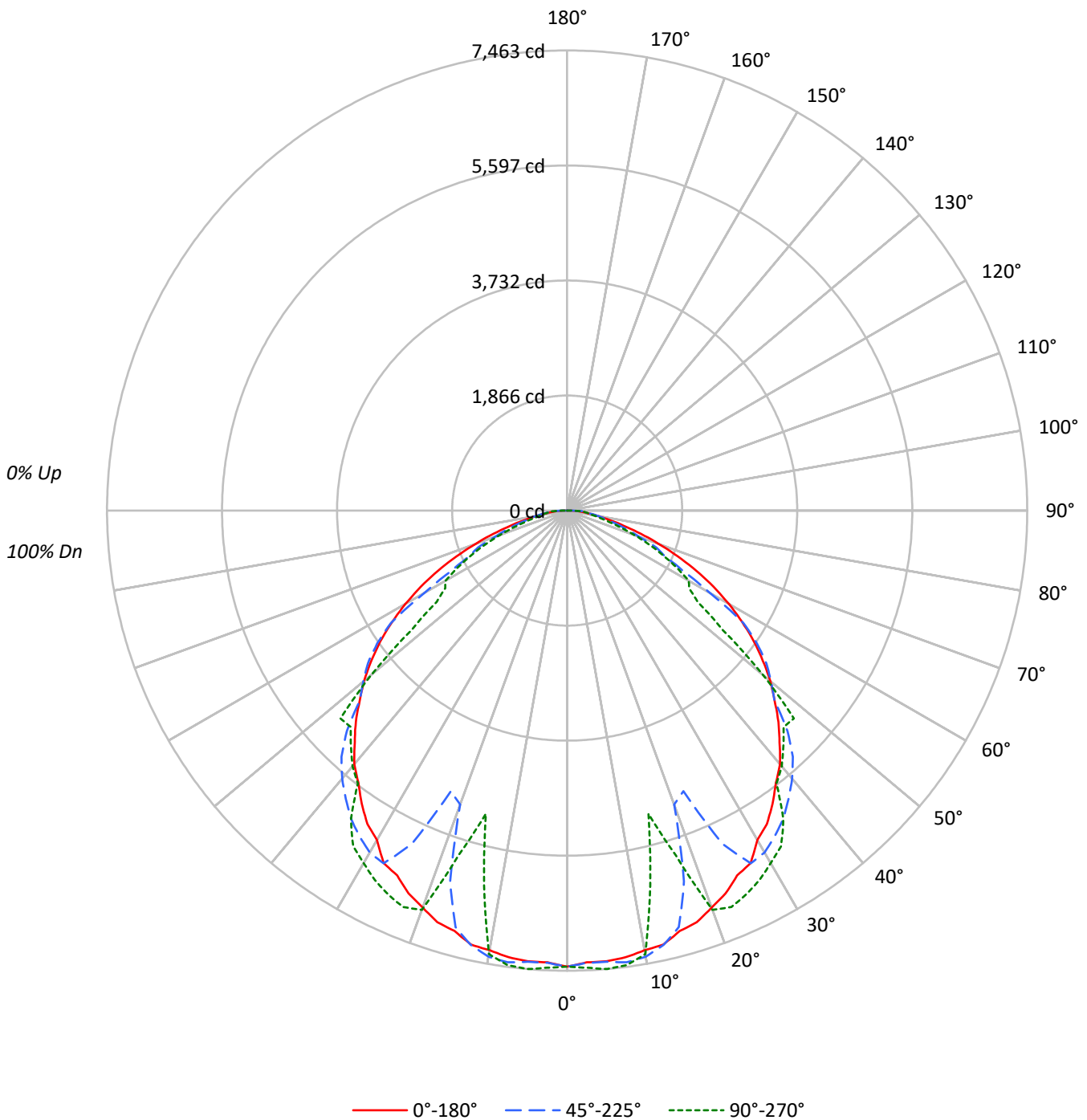
Lumens per Lamp: N/A  
Luminaire Lumens: 19153.0 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 167.7  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26

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

	0°	45°	90°
0°	10856	10856	10856
5°	10801	10741	10893
10°	10769	10783	10678
15°	10691	10390	7517
20°	10654	7683	10353
25°	10509	9286	10588
30°	10379	10337	10528
35°	10313	10321	10181
40°	10184	10148	9503
45°	9939	9662	9290
50°	9676	8939	8395
55°	9298	8567	5717
60°	8704	6854	5624
65°	7828	5101	4845
70°	6562	4350	3846
75°	5142	3486	2831
80°	3913	2972	2160
85°	3541	2531	2165



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	702.3	3.7
10°-20°	1861.3	9.7
20°-30°	2967.7	15.5
30°-40°	3562.0	18.6
40°-50°	3788.3	19.8
50°-60°	3099.2	16.2
60°-70°	1965.0	10.3
70°-80°	907.8	4.7
80°-90°	299.4	1.6
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°	5531.3	28.9
0°-40°	9093.3	47.5
0°-60°	15980.8	83.4
0°-90°	19153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19153.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7396	7396	7396	7396	7396	
5°	7339	7342	7345	7402	7463	697
15°	7059	7168	6995	5511	5091	2001
25°	6527	6545	5964	6809	6870	3023
35°	5806	4352	6107	6222	6116	3628
45°	4848	4869	5055	4930	4963	3734
55°	3698	3893	3759	2914	2582	3293
65°	2314	2354	1740	1752	1721	2282
75°	949	900	812	751	702	1039
85°	240	262	298	298	289	259
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7396.4	7396.4	7396.4	7396.4	7396.4
2.5°	7332.5	7344.7	7341.6	7396.4	7420.7
5°	7338.6	7341.6	7344.7	7402.5	7463.3
7.5°	7305.1	7369.0	7390.3	7369.0	7432.9
10°	7241.3	7299.0	7344.7	7280.8	7302.1
12.5°	7207.8	7293.0	7216.9	6903.7	6222.4
15°	7058.8	7168.3	6994.9	5510.8	5091.1
17.5°	6998.0	7071.0	6304.6	5066.8	5860.5
20°	6852.0	6952.3	5072.8	6514.4	6891.5
22.5°	6718.2	6791.2	4923.8	6852.0	6958.4
25°	6526.6	6544.8	5963.9	6809.4	6870.2
27.5°	6444.5	6170.7	6450.5	6721.2	6754.7
30°	6167.7	5605.1	6401.9	6599.6	6602.6
32.5°	6027.8	4881.2	6265.0	6423.2	6456.6
35°	5805.8	4352.1	6106.9	6222.4	6116.0
37.5°	5562.5	4276.0	5897.0	5836.2	5577.7
40°	5370.9	4665.3	5678.1	5300.9	5413.5
42.5°	5100.2	4902.5	5416.5	5170.2	5191.4
45°	4847.8	4869.1	5054.6	4929.9	4963.4
47.5°	4561.9	4701.8	4558.9	4723.1	4987.7
50°	4300.4	4449.4	4315.6	4586.2	4154.4
52.5°	4002.3	4187.8	4075.3	3689.1	3187.3
55°	3698.2	3892.8	3759.0	2913.5	2582.0
57.5°	3366.7	3527.9	3388.0	2387.4	2344.8
60°	3029.1	3156.8	2682.4	2174.5	2277.9
62.5°	2673.3	2752.3	2116.7	2004.2	1998.1
65°	2314.4	2353.9	1739.6	1751.8	1721.4
67.5°	1940.3	1958.6	1566.3	1484.1	1438.5
70°	1581.5	1569.3	1253.0	1207.4	1164.8
72.5°	1253.0	1195.2	1018.8	958.0	906.3
75°	948.9	900.2	812.0	751.2	702.5
77.5°	705.6	678.2	635.6	641.7	538.3
80°	495.7	498.8	523.1	444.0	413.6
82.5°	343.7	361.9	374.1	368.0	358.9
85°	240.3	261.5	298.0	298.0	288.9
87.5°	121.7	179.4	240.3	255.5	249.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)