

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-LD5-10-W-CLWG-UNV-L850-CD1-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-LD5-10-W-CLWG-UNV-L850-CD1-U  
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD  
DISTRIBUION

Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

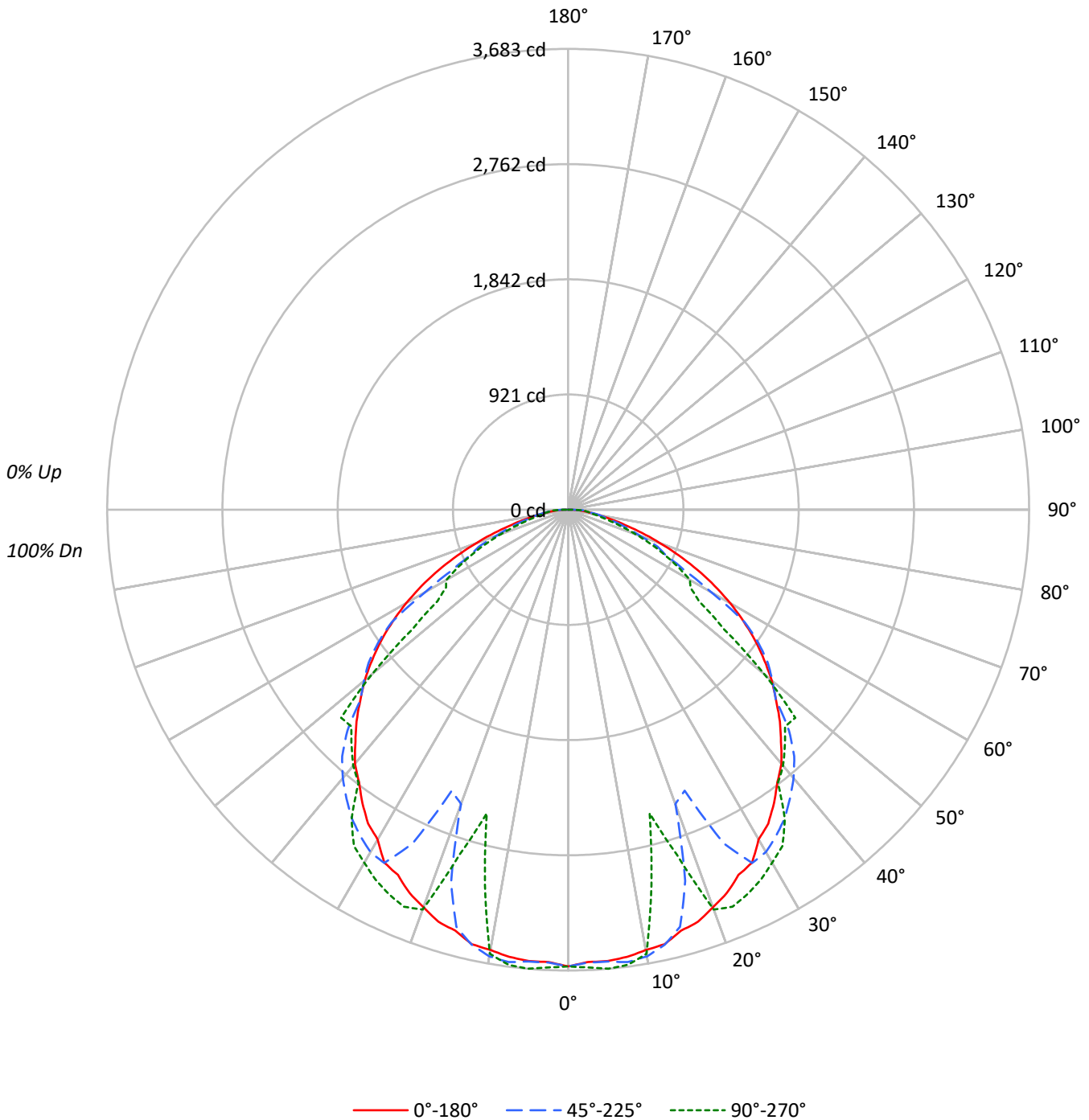
Lumens per Lamp: N/A  
Luminaire Lumens: 9451.0 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	5357	5357	5357
5°	5330	5300	5375
10°	5314	5321	5269
15°	5275	5127	3709
20°	5257	3791	5109
25°	5186	4582	5225
30°	5121	5101	5195
35°	5089	5093	5024
40°	5025	5007	4689
45°	4904	4768	4584
50°	4774	4411	4143
55°	4588	4228	2821
60°	4295	3382	2775
65°	3863	2517	2391
70°	3238	2146	1898
75°	2537	1720	1397
80°	1931	1467	1066
85°	1748	1249	1069



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.5	3.7
10°-20°	918.4	9.7
20°-30°	1464.4	15.5
30°-40°	1757.7	18.6
40°-50°	1869.3	19.8
50°-60°	1529.3	16.2
60°-70°	969.6	10.3
70°-80°	447.9	4.7
80°-90°	147.8	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°	2729.4	28.9
0°-40°	4487.1	47.5
0°-60°	7885.7	83.4
0°-90°	9451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9451.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3650	3650	3650	3650	3650	
5°	3621	3623	3624	3653	3683	344
15°	3483	3537	3452	2719	2512	987
25°	3220	3230	2943	3360	3390	1492
35°	2865	2148	3013	3070	3018	1790
45°	2392	2403	2494	2433	2449	1843
55°	1825	1921	1855	1438	1274	1625
65°	1142	1162	858	864	849	1126
75°	468	444	401	371	347	513
85°	119	129	147	147	143	128
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3649.7	3649.7	3649.7	3649.7	3649.7
2.5°	3618.2	3624.2	3622.7	3649.7	3661.7
5°	3621.2	3622.7	3624.2	3652.7	3682.7
7.5°	3604.7	3636.2	3646.7	3636.2	3667.7
10°	3573.2	3601.7	3624.2	3592.7	3603.2
12.5°	3556.7	3598.7	3561.2	3406.6	3070.4
15°	3483.1	3537.2	3451.6	2719.3	2512.2
17.5°	3453.1	3489.1	3111.0	2500.2	2891.9
20°	3381.1	3430.6	2503.2	3214.5	3400.6
22.5°	3315.1	3351.1	2429.6	3381.1	3433.6
25°	3220.5	3229.5	2942.9	3360.1	3390.1
27.5°	3180.0	3044.9	3183.0	3316.6	3333.1
30°	3043.4	2765.8	3159.0	3256.5	3258.0
32.5°	2974.4	2408.6	3091.5	3169.5	3186.0
35°	2864.8	2147.5	3013.4	3070.4	3017.9
37.5°	2744.8	2110.0	2909.9	2879.9	2752.3
40°	2650.2	2302.1	2801.8	2615.7	2671.3
42.5°	2516.7	2419.1	2672.8	2551.2	2561.7
45°	2392.1	2402.6	2494.2	2432.6	2449.2
47.5°	2251.1	2320.1	2249.6	2330.6	2461.2
50°	2122.0	2195.5	2129.5	2263.1	2050.0
52.5°	1974.9	2066.5	2010.9	1820.4	1572.7
55°	1824.9	1920.9	1854.9	1437.7	1274.1
57.5°	1661.3	1740.8	1671.8	1178.1	1157.0
60°	1494.7	1557.7	1323.6	1073.0	1124.0
62.5°	1319.1	1358.1	1044.5	989.0	986.0
65°	1142.0	1161.5	858.4	864.4	849.4
67.5°	957.5	966.5	772.9	732.3	709.8
70°	780.4	774.4	618.3	595.8	574.8
72.5°	618.3	589.8	502.7	472.7	447.2
75°	468.2	444.2	400.7	370.7	346.7
77.5°	348.2	334.7	313.6	316.6	265.6
80°	244.6	246.1	258.1	219.1	204.1
82.5°	169.6	178.6	184.6	181.6	177.1
85°	118.6	129.1	147.1	147.1	142.6
87.5°	60.0	88.5	118.6	126.1	123.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)