

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-W-CL-UNV-L850-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 (P34177)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-14-W-CL-UNV-L850-CD2-U  
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

**Summary**

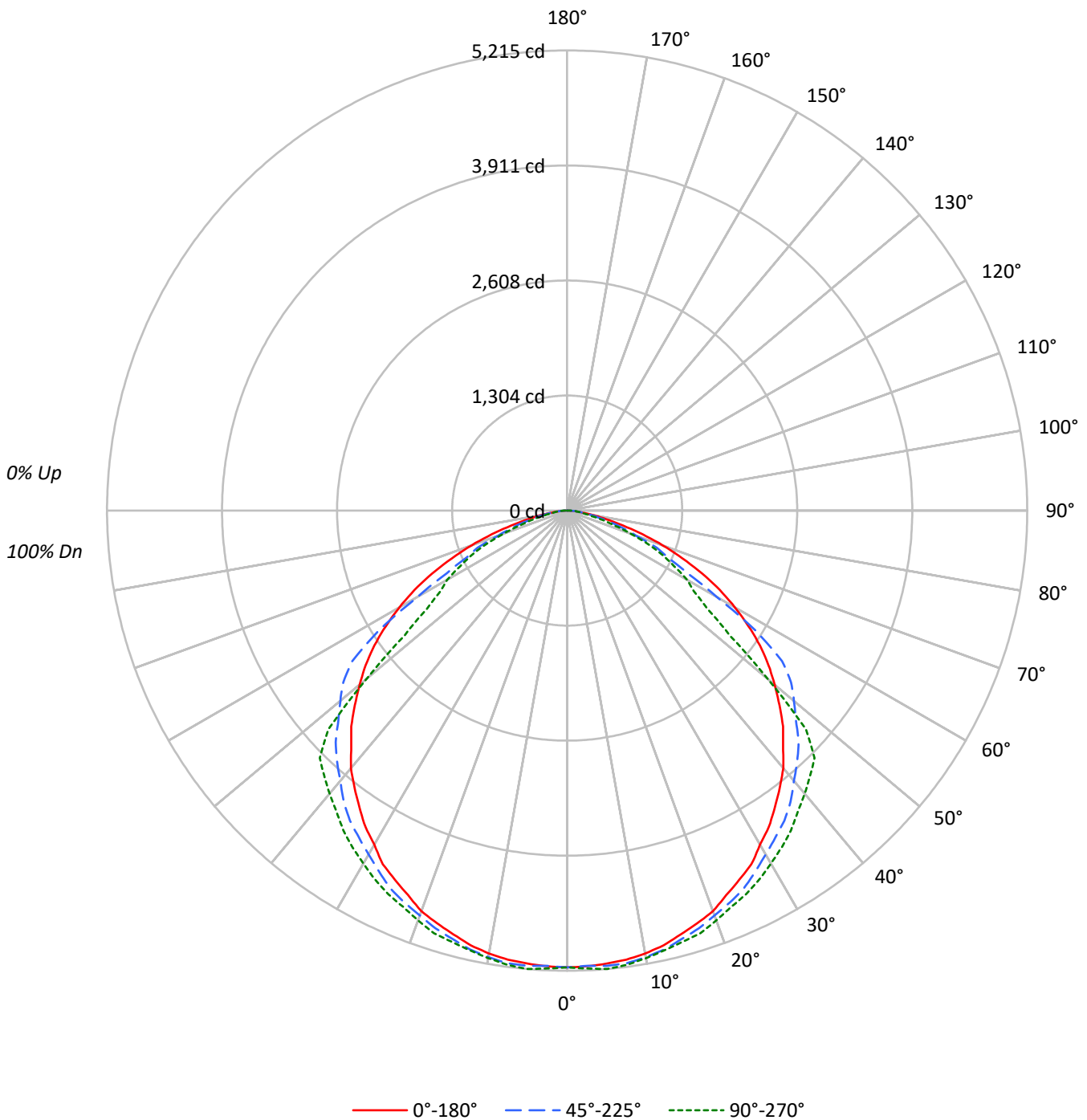
Lumens per Lamp: N/A  
Luminaire Lumens: 14020.0 lumens  
Efficiency: N/A  
Efficacy: 139.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	7599	7599	7599
5°	7586	7574	7611
10°	7580	7545	7530
15°	7531	7464	7469
20°	7512	7398	7423
25°	7433	7365	7391
30°	7357	7267	7364
35°	7290	7253	7362
40°	7227	7146	7352
45°	7092	7091	7421
50°	6905	6951	6002
55°	6704	6779	4294
60°	6317	5009	3877
65°	5711	3678	3370
70°	4793	2890	2534
75°	3552	2145	1691
80°	2313	1509	1057
85°	1211	913	790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	493.3	3.5
10°-20°	1422.3	10.1
20°-30°	2177.6	15.5
30°-40°	2680.4	19.1
40°-50°	2840.9	20.3
50°-60°	2281.6	16.3
60°-70°	1418.0	10.1
70°-80°	583.6	4.2
80°-90°	122.3	0.9
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°	4093.2	29.2
0°-40°	6773.6	48.3
0°-60°	11896.1	84.9
0°-90°	14020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14020.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5177	5177	5177	5177	5177	
5°	5154	5166	5179	5207	5215	490
15°	4973	5042	5025	5059	5059	1405
25°	4616	4665	4730	4783	4796	2130
35°	4104	4205	4292	4399	4422	2570
45°	3459	3535	3710	3887	3965	2661
55°	2666	2785	2974	2123	1939	2373
65°	1688	1809	1254	1191	1197	1664
75°	656	603	500	447	420	719
85°	82	101	108	108	105	117
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5177.1	5177.1	5177.1	5177.1	5177.1
2.5°	5168.6	5174.9	5164.4	5187.6	5193.9
5°	5153.9	5166.5	5179.2	5206.6	5215.0
7.5°	5132.8	5160.2	5174.9	5191.8	5191.8
10°	5097.0	5139.1	5139.1	5145.4	5149.6
12.5°	5046.4	5103.3	5092.7	5097.0	5103.3
15°	4972.6	5042.1	5025.3	5059.0	5059.0
17.5°	4903.0	4962.0	4964.2	5006.3	5021.1
20°	4831.4	4879.8	4884.1	4945.2	4941.0
22.5°	4715.4	4789.2	4810.3	4844.0	4860.9
25°	4616.3	4664.8	4730.2	4782.9	4795.5
27.5°	4521.5	4561.5	4614.2	4704.9	4715.4
30°	4371.8	4456.1	4500.4	4620.6	4618.5
32.5°	4253.8	4329.7	4392.9	4508.8	4525.7
35°	4104.1	4205.3	4291.7	4399.2	4422.4
37.5°	3958.7	4051.4	4158.9	4264.3	4295.9
40°	3811.1	3895.4	3998.7	4125.2	4188.4
42.5°	3621.4	3724.7	3859.6	4005.0	4076.7
45°	3459.1	3535.0	3709.9	3887.0	3965.0
47.5°	3263.1	3362.1	3516.0	3741.6	3669.9
50°	3069.1	3183.0	3355.8	3389.5	2970.1
52.5°	2877.3	2991.1	3199.8	2681.3	2322.9
55°	2666.5	2784.6	2974.3	2122.7	1939.3
57.5°	2436.8	2548.5	2531.6	1762.2	1699.0
60°	2198.6	2308.2	1960.4	1543.0	1570.4
62.5°	1951.9	2070.0	1538.8	1410.2	1368.0
65°	1688.4	1808.6	1254.2	1191.0	1197.3
67.5°	1414.4	1515.6	1100.3	1016.0	994.9
70°	1155.1	1184.7	832.6	809.4	767.3
72.5°	895.9	857.9	661.9	611.3	567.0
75°	655.6	602.9	499.6	446.9	419.5
77.5°	455.3	417.4	360.5	379.4	280.4
80°	293.0	271.9	265.6	210.8	202.4
82.5°	172.8	170.7	164.4	151.8	147.6
85°	82.2	101.2	107.5	107.5	105.4
87.5°	29.5	50.6	67.5	71.7	75.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)