

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-FL-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 (P34181)  
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-FL-UNV-L840-CD2-U  
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

**Summary**

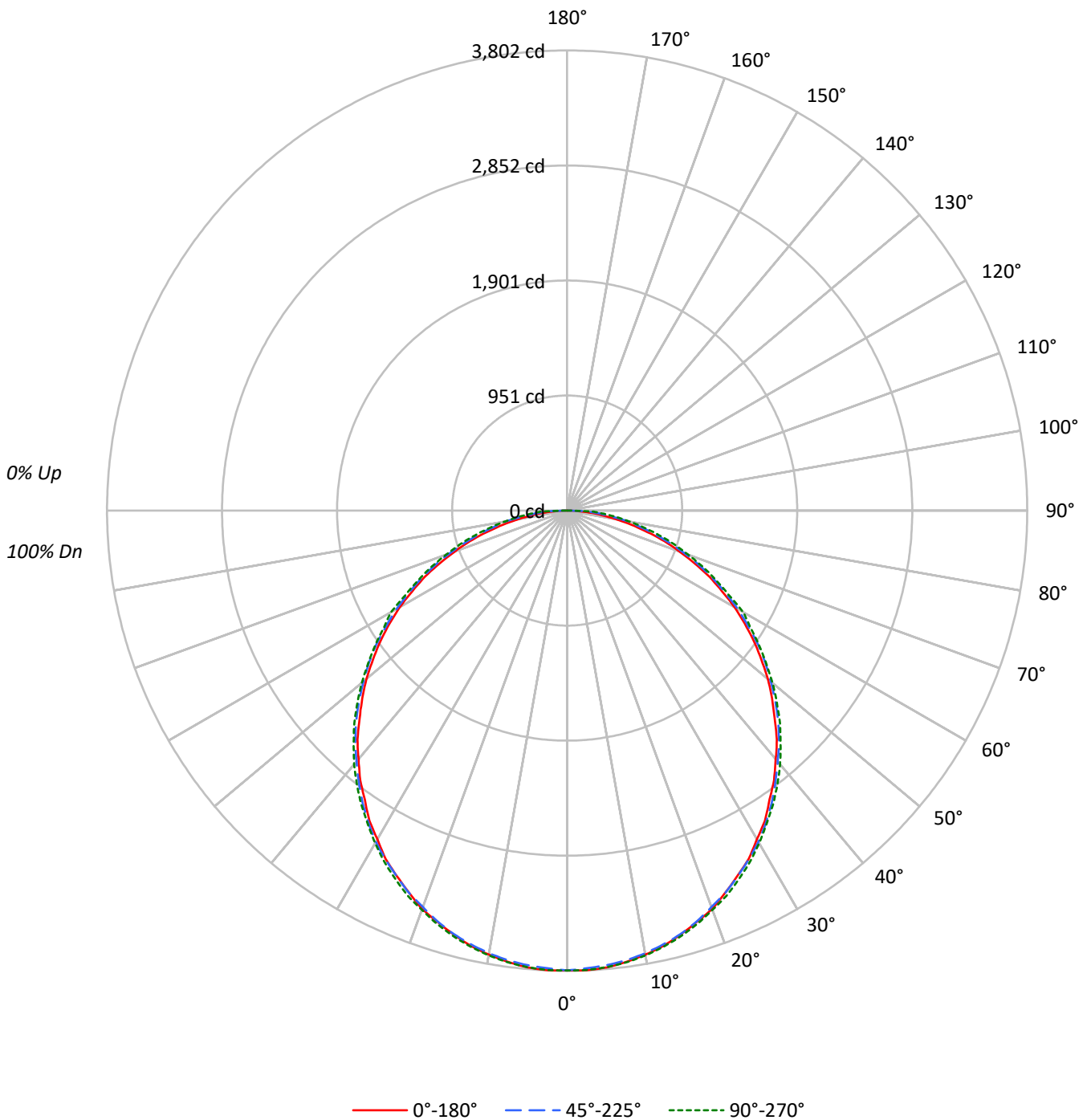
Lumens per Lamp: N/A  
Luminaire Lumens: 10759.0 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

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	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

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

	0°	45°	90°
0°	5577	5577	5577
5°	5575	5514	5526
10°	5541	5453	5457
15°	5492	5381	5374
20°	5448	5280	5275
25°	5362	5192	5177
30°	5276	5103	5061
35°	5178	4980	4937
40°	5084	4837	4806
45°	4970	4712	4654
50°	4871	4549	4477
55°	4742	4384	4284
60°	4586	4162	4152
65°	4390	3908	3812
70°	4091	3578	3507
75°	3727	3213	3165
80°	3261	2879	2737
85°	2728	2169	2279



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.1	3.3
10°-20°	1023.7	9.5
20°-30°	1540.4	14.3
30°-40°	1842.9	17.1
40°-50°	1899.2	17.7
50°-60°	1712.3	15.9
60°-70°	1315.1	12.2
70°-80°	791.8	7.4
80°-90°	274.5	2.6
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°	2923.3	27.2
0°-40°	4766.2	44.3
0°-60°	8377.6	77.9
0°-90°	10759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10759.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3800	3800	3800	3800	3800	
5°	3788	3784	3770	3784	3786	360
15°	3626	3630	3622	3638	3640	1023
25°	3330	3332	3334	3354	3359	1536
35°	2915	2944	2946	2964	2966	1827
45°	2424	2446	2465	2484	2486	1874
55°	1886	1902	1923	1935	1935	1683
65°	1298	1302	1333	1348	1354	1279
75°	688	707	748	776	785	731
85°	185	214	255	290	304	208
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3799.8	3799.8	3799.8	3799.8	3799.8
2.5°	3801.7	3799.8	3784.2	3795.9	3799.8
5°	3788.1	3784.2	3770.5	3784.2	3786.1
7.5°	3760.8	3758.8	3747.2	3760.8	3764.7
10°	3725.7	3725.7	3714.0	3727.7	3731.6
12.5°	3682.9	3680.9	3671.2	3686.7	3690.6
15°	3626.3	3630.2	3622.4	3638.0	3640.0
17.5°	3564.0	3565.9	3560.1	3573.7	3579.6
20°	3503.6	3493.8	3486.0	3509.4	3511.4
22.5°	3415.9	3419.8	3417.8	3439.3	3443.2
25°	3330.2	3332.1	3334.1	3353.5	3359.4
27.5°	3246.4	3244.4	3250.3	3265.9	3271.7
30°	3135.3	3150.9	3160.6	3172.3	3174.3
32.5°	3039.8	3045.7	3057.4	3065.1	3067.1
35°	2915.1	2944.3	2946.3	2963.8	2965.8
37.5°	2807.9	2817.7	2827.4	2848.9	2852.7
40°	2681.3	2694.9	2706.6	2726.1	2737.8
42.5°	2564.4	2579.9	2591.6	2609.2	2611.1
45°	2424.1	2445.5	2465.0	2484.5	2486.4
47.5°	2295.4	2316.9	2332.5	2348.1	2350.0
50°	2164.9	2182.4	2196.1	2215.6	2215.6
52.5°	2020.7	2042.1	2063.6	2071.4	2071.4
55°	1886.2	1901.8	1923.3	1935.0	1935.0
57.5°	1740.1	1747.9	1771.3	1792.7	1792.7
60°	1595.9	1605.6	1629.0	1644.6	1681.6
62.5°	1442.0	1457.6	1473.1	1523.8	1502.4
65°	1297.8	1301.7	1332.8	1348.4	1354.3
67.5°	1138.0	1151.6	1182.8	1200.3	1212.0
70°	986.0	1003.5	1030.8	1052.2	1062.0
72.5°	841.8	849.6	884.7	913.9	927.5
75°	687.9	707.3	748.3	775.5	785.3
77.5°	541.7	572.9	611.9	707.3	652.8
80°	413.1	436.5	506.6	510.5	524.2
82.5°	288.4	315.7	362.4	393.6	409.2
85°	185.1	214.3	255.3	290.3	304.0
87.5°	85.7	116.9	169.5	208.5	220.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)