

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-TWB-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 (P34175)  
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-TWB-UNV-L840-CD2-U  
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

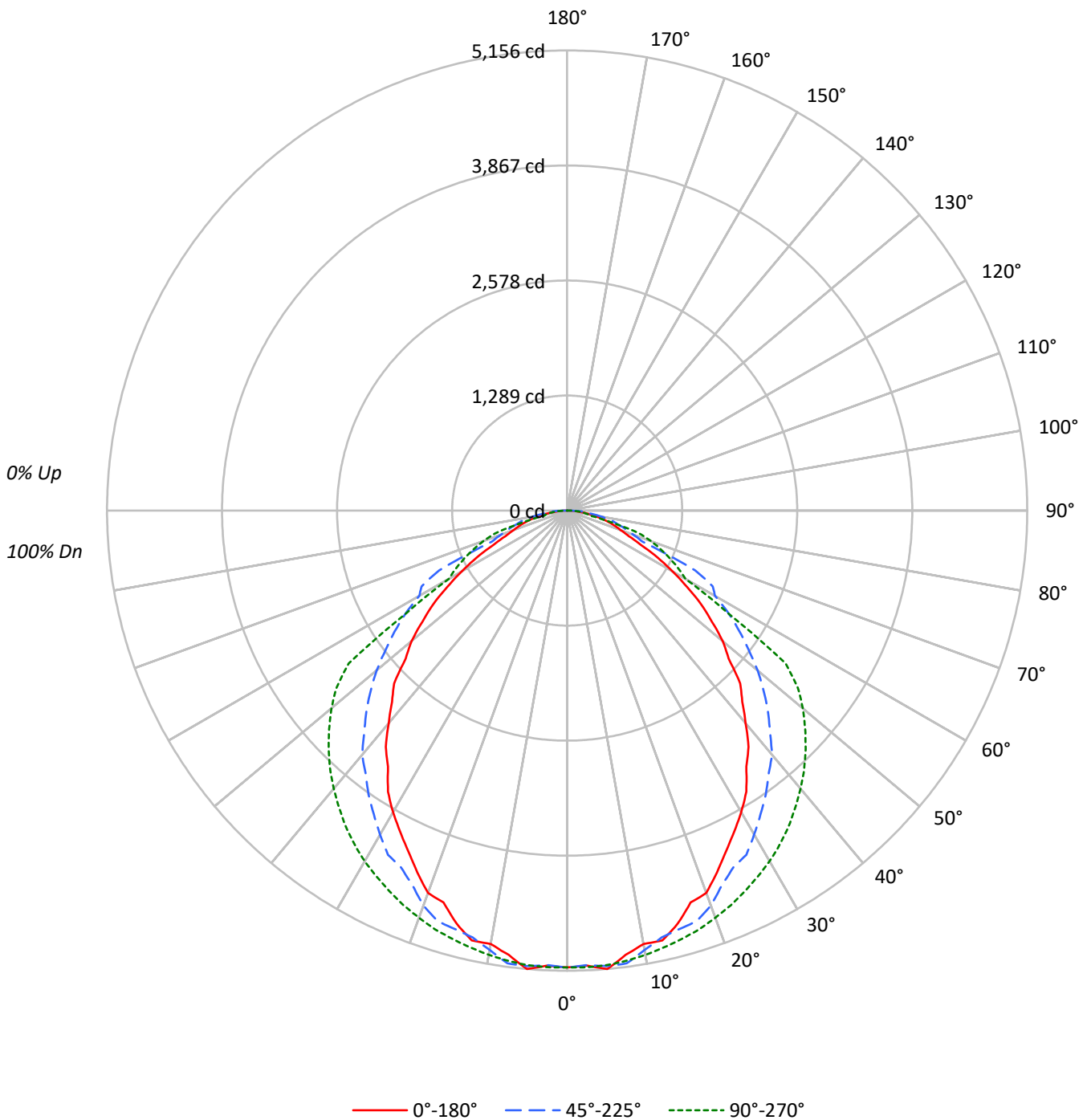
Lumens per Lamp: N/A  
Luminaire Lumens: 12910.0 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88				85	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75				72	
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64				62	
4	84	73	65	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	50	60	54	49	58	53	49				46	
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43				41	
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38				36	
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34				32	
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31				29	
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28				27	

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

	0°	45°	90°
0°	7514	7514	7514
5°	7589	7492	7460
10°	7332	7339	7392
15°	7255	7210	7334
20°	7090	7134	7293
25°	6781	6864	7256
30°	6565	6768	7233
35°	6217	6557	7198
40°	5901	6384	7143
45°	5621	6083	7072
50°	5121	5772	6966
55°	4610	5374	6614
60°	3920	4885	3782
65°	3092	4646	3576
70°	2644	2740	3288
75°	2523	2493	2074
80°	2307	2204	1221
85°	1838	1655	1037



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	485.0	3.8
10°-20°	1376.9	10.7
20°-30°	2055.2	15.9
30°-40°	2446.3	18.9
40°-50°	2473.4	19.2
50°-60°	2084.0	16.1
60°-70°	1204.2	9.3
70°-80°	594.4	4.6
80°-90°	190.6	1.5
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°	3917.0	30.3
0°-40°	6363.3	49.3
0°-60°	10920.8	84.6
0°-90°	12910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12910.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5119	5119	5119	5119	5119	
5°	5156	5168	5123	5098	5112	482
15°	4790	4864	4854	4985	4967	1345
25°	4211	4289	4408	4622	4708	1945
35°	3500	3642	3880	4209	4324	2202
45°	2742	2826	3182	3564	3779	2081
55°	1834	1978	2358	2812	2987	1628
65°	914	1115	1584	1191	1271	941
75°	466	573	581	639	514	490
85°	125	154	195	232	138	143
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5119.3	5119.3	5119.3	5119.3	5119.3
2.5°	5103.7	5109.6	5097.9	5127.1	5121.2
5°	5156.3	5168.0	5123.2	5097.9	5111.5
7.5°	5021.9	5047.2	5117.3	5084.2	5088.1
10°	4930.3	4934.2	4998.5	5101.8	5055.0
12.5°	4934.2	4926.4	4897.1	5074.5	5014.1
15°	4790.0	4864.0	4854.3	4984.8	4967.3
17.5°	4604.8	4676.9	4823.1	4895.2	4920.5
20°	4560.0	4534.7	4710.1	4780.2	4854.3
22.5°	4386.6	4487.9	4536.6	4692.5	4788.0
25°	4211.2	4289.1	4408.0	4622.4	4708.1
27.5°	4053.3	4137.1	4347.6	4556.1	4624.3
30°	3901.3	3979.3	4191.7	4472.3	4536.6
32.5°	3735.7	3833.1	4033.9	4371.0	4435.3
35°	3499.9	3642.2	3879.9	4209.2	4324.2
37.5°	3338.2	3431.7	3710.4	4037.8	4197.6
40°	3112.1	3262.2	3572.0	3905.2	4068.9
42.5°	2903.6	3051.7	3363.5	3739.6	3930.6
45°	2741.9	2825.6	3182.3	3564.2	3778.6
47.5°	2453.4	2665.9	2985.4	3377.1	3616.8
50°	2276.1	2422.3	2786.7	3197.9	3447.3
52.5°	2046.2	2209.9	2562.6	2999.1	3258.3
55°	1833.7	1978.0	2358.0	2812.0	2987.4
57.5°	1592.1	1777.2	2145.5	2599.6	2131.9
60°	1364.1	1549.2	1911.7	1755.8	1531.7
62.5°	1145.8	1309.5	1839.6	1321.2	1405.0
65°	914.0	1114.7	1584.3	1190.7	1270.6
67.5°	750.3	890.6	914.0	1066.0	1136.1
70°	637.2	705.4	789.2	945.1	995.8
72.5°	553.4	582.7	686.0	839.9	847.7
75°	465.7	572.9	580.7	639.2	514.5
77.5°	372.2	461.8	502.8	372.2	263.1
80°	292.3	313.7	387.8	327.4	233.8
82.5°	202.7	231.9	268.9	282.6	192.9
85°	124.7	153.9	194.9	231.9	138.4
87.5°	52.6	83.8	134.5	179.3	76.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)