

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: **4ILED-LD5-11-W-TWB-UNV-L840-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 (P34175)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-11-W-TWB-UNV-L840-CD1-U  
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

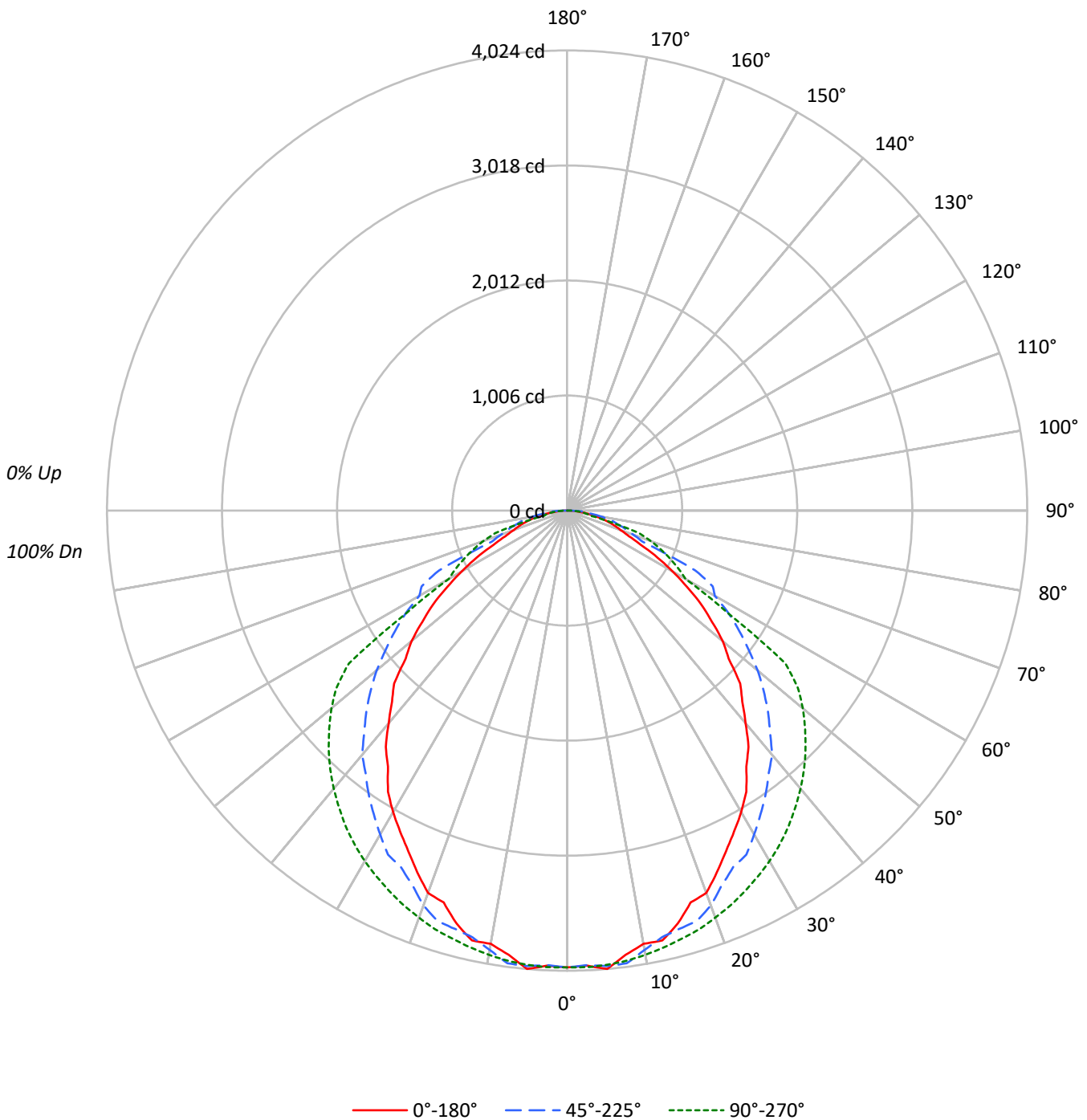
Lumens per Lamp: N/A  
Luminaire Lumens: 10074.0 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 83.9  
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	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°	11727	11727	11727
5°	11831	11684	11643
10°	11418	11436	11536
15°	11284	11227	11446
20°	11016	11099	11382
25°	10521	10670	11324
30°	10173	10512	11289
35°	9619	10175	11234
40°	9115	9894	11147
45°	8666	9416	11037
50°	7877	8923	10872
55°	7071	8294	10323
60°	5990	7523	5902
65°	4702	7137	5581
70°	3993	4194	5131
75°	3770	3797	3236
80°	3377	3327	1906
85°	2549	2459	1619



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.4	3.8
10°-20°	1074.4	10.7
20°-30°	1603.7	15.9
30°-40°	1908.9	18.9
40°-50°	1930.1	19.2
50°-60°	1626.2	16.1
60°-70°	939.7	9.3
70°-80°	463.8	4.6
80°-90°	148.8	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°	3056.6	30.3
0°-40°	4965.5	49.3
0°-60°	8521.7	84.6
0°-90°	10074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10074.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3995	3995	3995	3995	3995	
5°	4024	4033	3998	3978	3989	376
15°	3738	3796	3788	3890	3876	1049
25°	3286	3347	3440	3607	3674	1517
35°	2731	2842	3028	3285	3374	1718
45°	2140	2205	2483	2781	2948	1624
55°	1431	1543	1840	2194	2331	1270
65°	713	870	1236	929	992	734
75°	363	447	453	499	401	382
85°	97	120	152	181	108	112
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3994.7	3994.7	3994.7	3994.7	3994.7
2.5°	3982.6	3987.1	3978.0	4000.8	3996.2
5°	4023.6	4032.7	3997.8	3978.0	3988.6
7.5°	3918.7	3938.5	3993.2	3967.3	3970.4
10°	3847.2	3850.3	3900.4	3981.0	3944.5
12.5°	3850.3	3844.2	3821.4	3959.7	3912.6
15°	3737.7	3795.5	3787.9	3889.8	3876.1
17.5°	3593.3	3649.5	3763.6	3819.8	3839.6
20°	3558.3	3538.5	3675.4	3730.1	3787.9
22.5°	3423.0	3502.0	3540.0	3661.7	3736.2
25°	3286.1	3346.9	3439.7	3607.0	3673.9
27.5°	3162.9	3228.3	3392.5	3555.3	3608.5
30°	3044.3	3105.1	3270.9	3489.9	3540.0
32.5°	2915.1	2991.1	3147.7	3410.8	3461.0
35°	2731.1	2842.1	3027.6	3284.6	3374.3
37.5°	2604.9	2677.8	2895.3	3150.8	3275.5
40°	2428.5	2545.5	2787.3	3047.4	3175.1
42.5°	2265.8	2381.3	2624.6	2918.1	3067.1
45°	2139.5	2204.9	2483.2	2781.2	2948.5
47.5°	1914.5	2080.2	2329.6	2635.3	2822.3
50°	1776.1	1890.2	2174.5	2495.4	2690.0
52.5°	1596.7	1724.4	1999.6	2340.3	2542.5
55°	1430.9	1543.4	1840.0	2194.3	2331.1
57.5°	1242.4	1386.8	1674.2	2028.5	1663.6
60°	1064.4	1208.9	1491.7	1370.1	1195.2
62.5°	894.1	1021.9	1435.5	1031.0	1096.4
65°	713.2	869.8	1236.3	929.1	991.5
67.5°	585.4	694.9	713.2	831.8	886.5
70°	497.2	550.5	615.9	737.5	777.0
72.5°	431.9	454.7	535.3	655.4	661.5
75°	363.4	447.1	453.2	498.8	401.4
77.5°	290.4	360.4	392.3	290.4	205.3
80°	228.1	244.8	302.6	255.5	182.5
82.5°	158.1	181.0	209.8	220.5	150.5
85°	97.3	120.1	152.1	181.0	108.0
87.5°	41.1	65.4	104.9	139.9	59.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)