

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-LD5-14-N-TWBWG-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 (P34186)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-14-N-TWBWG-UNV-L840-CD2-U  
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION

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

**Summary**

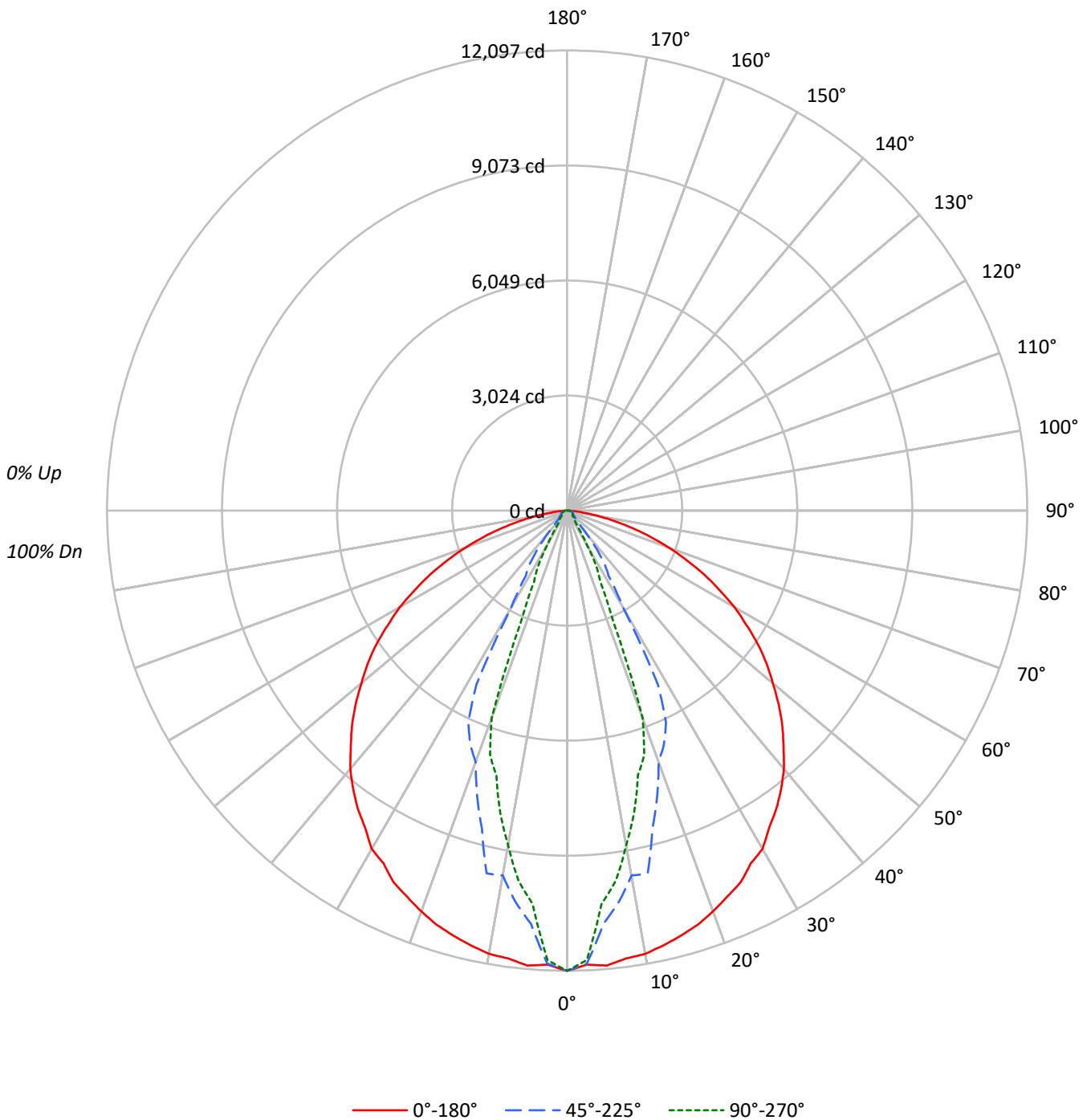
Lumens per Lamp: N/A  
Luminaire Lumens: 12010.0 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 102  
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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71				71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				64
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54				54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49				49
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46				46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43				43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40				40

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

	0°	45°	90°
0°	35512	35512	35512
5°	35301	31887	30310
10°	35111	28562	26155
15°	34918	25669	21255
20°	34706	21233	17413
25°	34538	19073	6334
30°	34326	9497	3302
35°	33759	5744	1257
40°	33284	2871	1095
45°	32407	1243	811
50°	31306	1052	739
55°	30228	878	774
60°	28597	912	756
65°	26152	987	772
70°	22825	1028	800
75°	18246	1132	881
80°	12300	1332	975
85°	6560	1574	1222



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1033.3	8.6
10°-20°	2505.0	20.9
20°-30°	2728.9	22.7
30°-40°	2099.2	17.5
40°-50°	1551.1	12.9
50°-60°	975.9	8.1
60°-70°	639.0	5.3
70°-80°	357.8	3.0
80°-90°	119.8	1.0
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°	6267.2	52.2
0°-40°	8366.4	69.7
0°-60°	10893.4	90.7
0°-90°	12010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12010.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12097	12097	12097	12097	12097	
5°	12006	11912	10910	10266	10384	###
15°	11566	10056	8661	7518	7198	3266
25°	10787	8061	6149	2738	2055	4959
35°	9585	5940	1709	544	378	5994
45°	8001	3164	328	276	217	6162
55°	6117	811	195	205	175	5450
65°	3967	201	171	153	137	3912
75°	1759	151	135	121	109	1887
85°	250	95	97	93	82	319
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12096.9	12096.9	12096.9	12096.9	12096.9
2.5°	11947.8	11951.8	11922.0	11862.4	11824.6
5°	12005.5	11912.1	10910.4	10266.5	10383.8
7.5°	11874.3	11391.4	10383.8	9902.9	9809.5
10°	11830.6	10592.5	9741.9	9578.9	8943.0
12.5°	11705.4	10107.6	9771.7	8744.3	8134.1
15°	11566.3	10055.9	8660.8	7518.1	7198.1
17.5°	11415.2	9602.8	7869.8	6890.1	6737.1
20°	11210.5	9312.6	7031.2	6333.6	5795.1
22.5°	10989.9	9173.5	6651.6	4127.7	3199.6
25°	10787.2	8060.6	6148.8	2738.5	2054.9
27.5°	10453.4	7971.2	5165.1	2005.2	1695.2
30°	10272.5	7144.5	2955.2	1508.4	1035.4
32.5°	9881.0	6496.6	2023.1	916.2	618.1
35°	9584.9	5940.1	1709.1	544.5	377.6
37.5°	9237.1	5572.5	1277.9	373.6	327.9
40°	8867.5	5139.2	808.8	333.9	312.0
42.5°	8418.3	4628.5	478.9	314.0	268.3
45°	8001.0	3163.8	327.9	276.2	216.6
47.5°	7539.9	2158.2	280.2	234.5	186.8
50°	7059.0	1411.0	256.4	208.7	182.8
52.5°	6607.9	1156.6	222.6	208.7	182.8
55°	6117.0	810.8	194.8	204.7	174.9
57.5°	5578.4	504.8	182.8	198.7	168.9
60°	5081.6	298.1	180.8	192.8	153.0
62.5°	4501.3	226.6	176.9	170.9	145.1
65°	3966.7	200.7	170.9	153.0	137.1
67.5°	3392.4	180.8	159.0	147.1	133.2
70°	2841.9	163.0	151.0	137.1	121.2
72.5°	2289.4	157.0	143.1	129.2	115.3
75°	1758.8	151.0	135.1	121.2	109.3
77.5°	1279.8	141.1	127.2	117.3	103.3
80°	830.7	129.2	121.2	109.3	93.4
82.5°	463.0	117.3	111.3	101.4	89.4
85°	250.4	95.4	97.4	93.4	81.5
87.5°	45.7	67.6	83.5	81.5	71.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)