

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-LD5-7-N-TWBWG-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 (P34186)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-7-N-TWBWG-UNV-L840-CD1-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

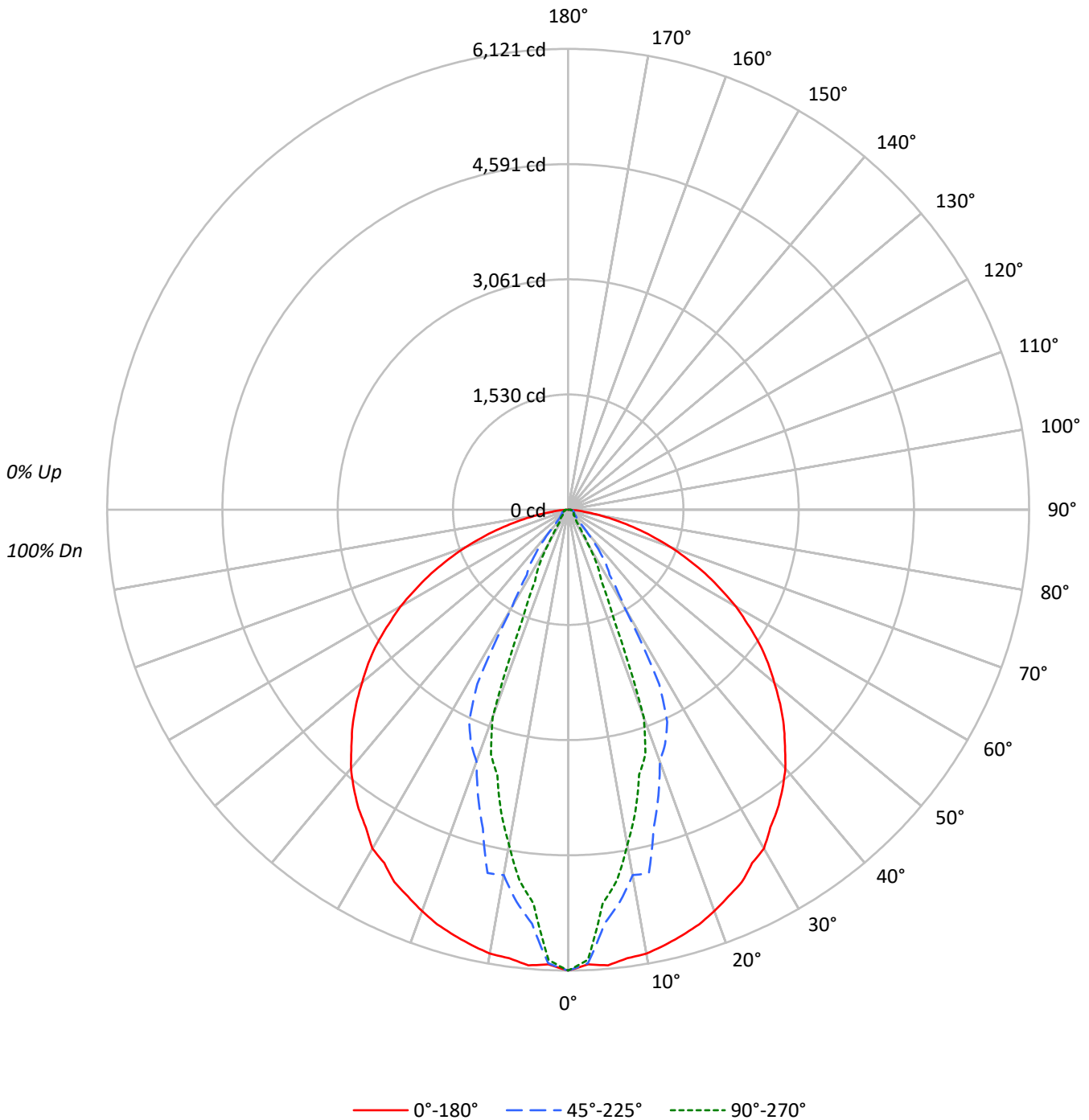
Lumens per Lamp: N/A
Luminaire Lumens: 6077.0 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
Input Voltage (V):
Input Current (Ain): 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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17969	17969	17969
5°	17862	16134	15337
10°	17766	14452	13234
15°	17668	12989	10755
20°	17561	10744	8811
25°	17476	9651	3205
30°	17369	4806	1671
35°	17082	2906	636
40°	16841	1453	554
45°	16398	629	410
50°	15840	532	374
55°	15295	444	392
60°	14470	461	382
65°	13232	499	391
70°	11549	520	405
75°	9232	573	446
80°	6223	674	494
85°	3319	797	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.8	8.6
10°-20°	1267.5	20.9
20°-30°	1380.8	22.7
30°-40°	1062.2	17.5
40°-50°	784.8	12.9
50°-60°	493.8	8.1
60°-70°	323.3	5.3
70°-80°	181.0	3.0
80°-90°	60.6	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°	3171.2	52.2
0°-40°	4233.4	69.7
0°-60°	5512.0	90.7
0°-90°	6077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6121	6121	6121	6121	6121	
5°	6075	6027	5521	5195	5254	575
15°	5852	5088	4382	3804	3642	1653
25°	5458	4079	3111	1386	1040	2509
35°	4850	3006	865	276	191	3033
45°	4048	1601	166	140	110	3118
55°	3095	410	98	104	88	2757
65°	2007	102	86	77	69	1980
75°	890	76	68	61	55	955
85°	127	48	49	47	41	162
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6121.0	6121.0	6121.0	6121.0	6121.0
2.5°	6045.5	6047.6	6032.5	6002.3	5983.2
5°	6074.7	6027.4	5520.6	5194.8	5254.2
7.5°	6008.3	5764.0	5254.2	5010.8	4963.5
10°	5986.2	5359.7	4929.3	4846.9	4525.1
12.5°	5922.9	5114.4	4944.4	4424.5	4115.8
15°	5852.5	5088.2	4382.3	3804.1	3642.2
17.5°	5776.0	4859.0	3982.1	3486.3	3408.9
20°	5672.5	4712.1	3557.7	3204.8	2932.3
22.5°	5560.9	4641.8	3365.7	2088.6	1619.0
25°	5458.3	4078.6	3111.3	1385.7	1039.8
27.5°	5289.3	4033.4	2613.5	1014.6	857.8
30°	5197.8	3615.1	1495.3	763.2	523.9
32.5°	4999.7	3287.2	1023.7	463.6	312.7
35°	4849.9	3005.7	864.8	275.5	191.1
37.5°	4673.9	2819.6	646.6	189.0	165.9
40°	4486.9	2600.4	409.3	168.9	157.9
42.5°	4259.6	2342.0	242.3	158.9	135.8
45°	4048.5	1600.9	165.9	139.8	109.6
47.5°	3815.2	1092.1	141.8	118.7	94.5
50°	3571.8	714.0	129.7	105.6	92.5
52.5°	3343.6	585.2	112.6	105.6	92.5
55°	3095.2	410.3	98.5	103.6	88.5
57.5°	2822.7	255.4	92.5	100.6	85.5
60°	2571.3	150.8	91.5	97.5	77.4
62.5°	2277.6	114.6	89.5	86.5	73.4
65°	2007.1	101.6	86.5	77.4	69.4
67.5°	1716.5	91.5	80.4	74.4	67.4
70°	1438.0	82.5	76.4	69.4	61.3
72.5°	1158.4	79.4	72.4	65.4	58.3
75°	889.9	76.4	68.4	61.3	55.3
77.5°	647.6	71.4	64.4	59.3	52.3
80°	420.3	65.4	61.3	55.3	47.3
82.5°	234.3	59.3	56.3	51.3	45.3
85°	126.7	48.3	49.3	47.3	41.2
87.5°	23.1	34.2	42.2	41.2	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)