

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-W-ASYWG-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 (P34184)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-14-W-ASYWG-UNV-L840-CD2-U
Description: Metalux 4' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

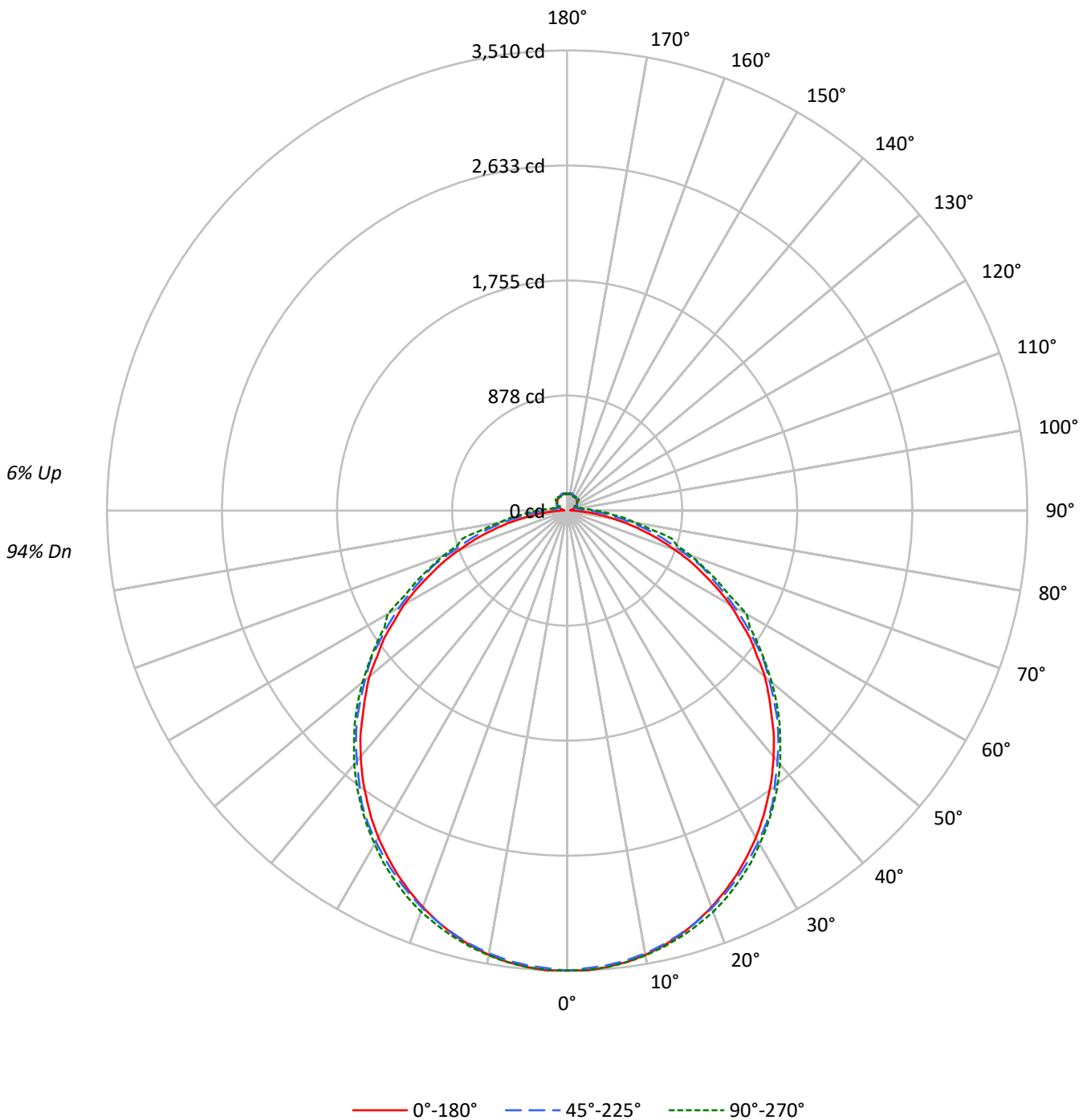
Lumens per Lamp: N/A
Luminaire Lumens: 10572.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 102
Input Voltage (V):
Input Current (A_{in}): 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	91	94	91	87	89	86	84	84	82	80	78
2	97	89	82	76	94	86	80	75	82	76	72	78	73	69	74	70	67	65
3	88	78	70	63	85	76	68	62	72	66	60	68	63	58	65	61	57	54
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	49	46
5	74	62	52	46	72	60	52	45	57	50	44	55	48	43	52	47	42	40
6	69	55	46	40	66	54	46	40	52	44	39	49	43	38	47	42	37	35
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	31	41	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10300	10300	10300
5°	10276	10175	10201
10°	10212	10054	10075
15°	10107	9906	9932
20°	9964	9742	9787
25°	9803	9563	9592
30°	9623	9373	9369
35°	9407	9178	9131
40°	9191	8857	8868
45°	8931	8603	8572
50°	8732	8262	8231
55°	8430	7890	7880
60°	8087	7452	7803
65°	7574	7000	7088
70°	7006	6480	6616
75°	6260	5882	6688
80°	5326	5274	5474
85°	4205	4752	5131



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.6	3.1
10°-20°	945.6	8.9
20°-30°	1422.6	13.5
30°-40°	1700.3	16.1
40°-50°	1744.4	16.5
50°-60°	1565.3	14.8
60°-70°	1202.7	11.4
70°-80°	735.9	7.0
80°-90°	312.1	3.0
90°-100°	109.8	1.0
100°-110°	76.8	0.7
110°-120°	71.7	0.7
120°-130°	83.5	0.8
130°-140°	88.4	0.8
140°-150°	74.8	0.7
150°-160°	57.1	0.5
160°-170°	37.0	0.4
170°-180°	12.4	0.1
0°-30°	2699.8	25.5
0°-40°	4400.1	41.6
0°-60°	7709.8	72.9
0°-90°	9960.4	94.2
90°-120°	258.4	2.4
90°-150°	505.0	4.8
90°-180°	612.0	5.8
0°-180°	10572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3508	3508	3508	3508	3508	
5°	3495	3495	3481	3495	3495	332
15°	3348	3350	3342	3360	3363	944
25°	3062	3068	3083	3110	3112	1410
35°	2671	2706	2731	2737	2743	1672
45°	2205	2244	2269	2286	2290	1705
55°	1706	1721	1750	1776	1779	1520
65°	1149	1170	1213	1251	1259	1142
75°	603	636	702	743	830	643
85°	160	219	294	333	342	172
90°	31	87	166	211	220	24
95°	25	60	102	137	143	23
105°	48	46	70	110	102	51
115°	72	79	60	70	74	72
125°	91	91	108	93	77	81
135°	106	104	114	128	124	82
145°	116	120	114	120	126	73
155°	124	132	124	118	118	57
165°	128	132	135	132	128	36
175°	130	130	130	130	126	12
180°	128	128	128	128	128	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3508.5	3508.5	3508.5	3508.5	3508.5
2.5°	3510.4	3508.5	3493.0	3504.6	3508.5
5°	3494.9	3494.9	3481.4	3494.9	3494.9
7.5°	3473.7	3471.7	3460.1	3471.7	3475.6
10°	3440.8	3440.8	3429.2	3442.7	3444.7
12.5°	3398.2	3400.2	3390.5	3404.0	3407.9
15°	3348.0	3349.9	3342.2	3359.6	3363.4
17.5°	3286.1	3289.9	3288.0	3307.3	3313.1
20°	3218.4	3230.0	3226.1	3251.2	3257.1
22.5°	3142.9	3150.7	3158.4	3185.5	3189.4
25°	3061.7	3067.5	3083.0	3110.1	3112.0
27.5°	2972.7	2988.2	3001.7	3023.0	3030.8
30°	2879.9	2901.2	2916.6	2936.0	2937.9
32.5°	2779.3	2808.3	2827.7	2837.3	2843.2
35°	2671.0	2705.8	2731.0	2736.8	2742.6
37.5°	2564.6	2601.4	2607.2	2634.3	2636.2
40°	2448.6	2491.1	2495.0	2520.2	2526.0
42.5°	2334.5	2357.7	2384.8	2408.0	2406.0
45°	2204.9	2243.6	2268.7	2286.1	2290.0
47.5°	2085.0	2129.5	2137.2	2158.5	2166.2
50°	1968.9	2003.7	2013.4	2040.5	2036.6
52.5°	1827.7	1866.4	1895.4	1905.1	1905.1
55°	1705.9	1721.4	1750.4	1775.5	1779.4
57.5°	1560.8	1586.0	1613.1	1647.9	1651.7
60°	1437.0	1456.4	1477.7	1535.7	1580.2
62.5°	1292.0	1311.3	1342.3	1390.6	1390.6
65°	1148.9	1170.1	1212.7	1251.4	1259.1
67.5°	1019.3	1038.6	1110.2	1119.9	1125.7
70°	872.3	897.4	951.6	988.3	1001.9
72.5°	738.8	762.0	820.1	866.5	874.2
75°	603.4	636.3	702.1	742.7	829.7
77.5°	479.7	520.3	582.2	630.5	647.9
80°	359.7	404.2	479.7	516.4	524.1
82.5°	249.5	307.5	373.3	427.4	441.0
85°	160.5	218.6	294.0	332.7	342.3
87.5°	85.1	147.0	220.5	266.9	278.5
90°	30.9	87.0	166.3	210.8	220.5
92.5°	27.1	61.9	125.7	164.4	174.1
95°	25.1	60.0	102.5	137.3	143.1
97.5°	29.0	52.2	90.9	108.3	114.1
100°	34.8	46.4	87.0	104.4	110.2
102.5°	40.6	42.6	79.3	94.8	94.8
105°	48.4	46.4	69.6	110.2	102.5
107.5°	54.2	61.9	67.7	81.2	89.0
110°	61.9	67.7	60.0	77.4	79.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	67.7	75.4	60.0	75.4	75.4
115°	71.6	79.3	60.0	69.6	73.5
117.5°	77.4	81.2	75.4	67.7	67.7
120°	83.2	83.2	92.8	65.8	65.8
122.5°	87.0	87.0	98.6	73.5	65.8
125°	90.9	90.9	108.3	92.8	77.4
127.5°	94.8	94.8	112.2	106.4	96.7
130°	98.6	96.7	116.0	114.1	108.3
132.5°	102.5	100.6	116.0	119.9	116.0
135°	106.4	104.4	114.1	127.7	123.8
137.5°	108.3	108.3	112.2	129.6	129.6
140°	112.2	112.2	112.2	127.7	133.5
142.5°	114.1	116.0	114.1	123.8	129.6
145°	116.0	119.9	114.1	119.9	125.7
147.5°	118.0	123.8	114.1	119.9	119.9
150°	121.8	125.7	116.0	118.0	119.9
152.5°	121.8	129.6	119.9	118.0	118.0
155°	123.8	131.5	123.8	118.0	118.0
157.5°	125.7	131.5	125.7	119.9	118.0
160°	125.7	133.5	129.6	123.8	119.9
162.5°	127.7	133.5	133.5	127.7	123.8
165°	127.7	131.5	135.4	131.5	127.7
167.5°	127.7	131.5	135.4	133.5	129.6
170°	129.6	131.5	133.5	133.5	129.6
172.5°	129.6	129.6	131.5	131.5	129.6
175°	129.6	129.6	129.6	129.6	125.7
177.5°	129.6	129.6	129.6	127.7	123.8
180°	127.7	127.7	127.7	127.7	127.7

(END OF REPORT)