

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-L835-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-L835-CD2-U
Description: Metalux 4' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

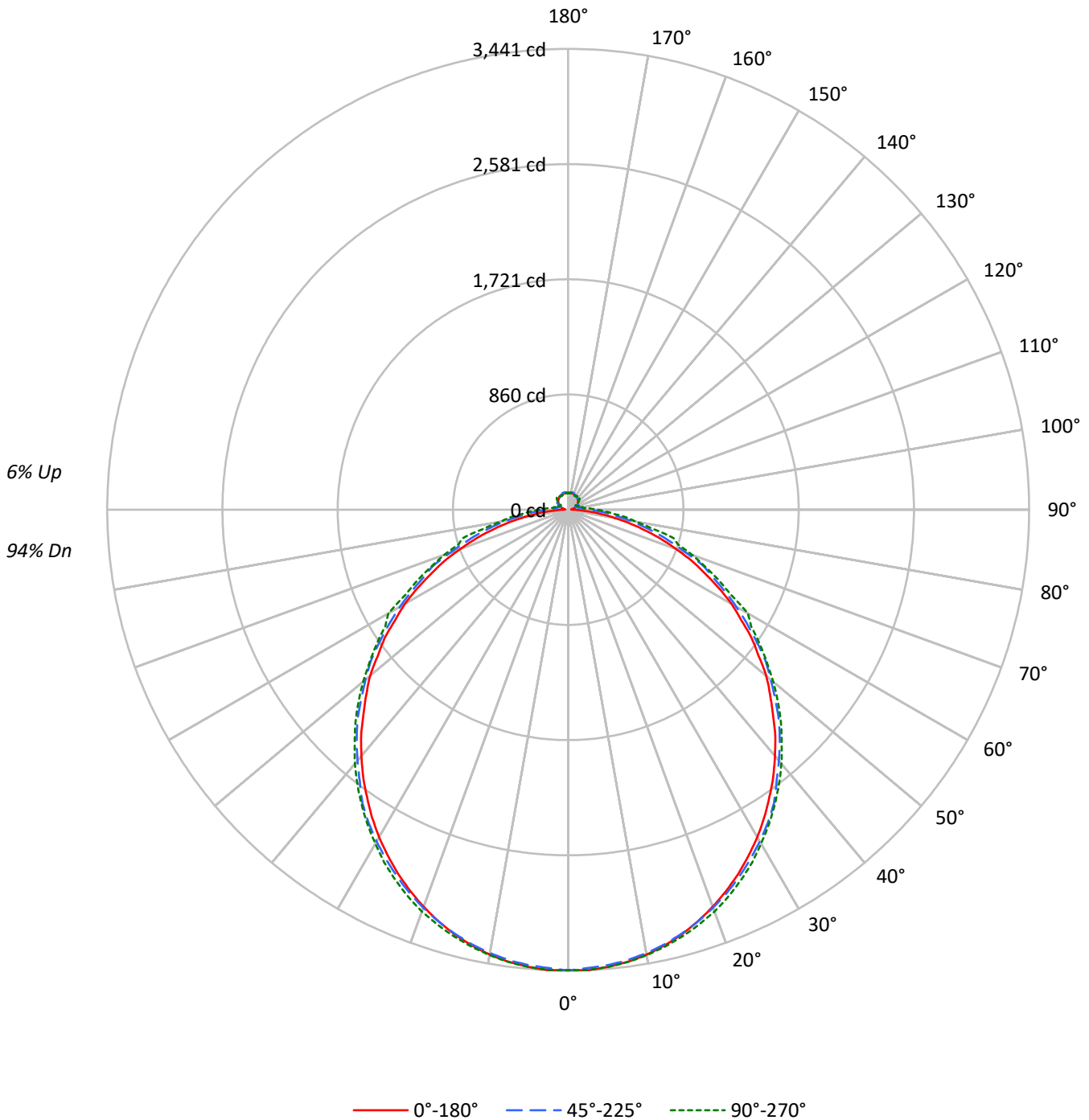
Lumens per Lamp: N/A
Luminaire Lumens: 10364.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 102
Input Voltage (V):
Input Current (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	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°	10097	10097	10097
5°	10074	9974	10001
10°	10011	9856	9876
15°	9908	9711	9736
20°	9767	9550	9594
25°	9610	9375	9403
30°	9434	9189	9184
35°	9223	8997	8951
40°	9010	8682	8694
45°	8755	8434	8403
50°	8560	8099	8069
55°	8264	7735	7725
60°	7928	7305	7650
65°	7425	6862	6948
70°	6868	6352	6486
75°	6137	5766	6556
80°	5222	5169	5366
85°	4123	4659	5031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.1	3.1
10°-20°	927.0	8.9
20°-30°	1394.6	13.5
30°-40°	1666.8	16.1
40°-50°	1710.1	16.5
50°-60°	1534.5	14.8
60°-70°	1179.0	11.4
70°-80°	721.4	7.0
80°-90°	305.9	3.0
90°-100°	107.7	1.0
100°-110°	75.3	0.7
110°-120°	70.3	0.7
120°-130°	81.9	0.8
130°-140°	86.7	0.8
140°-150°	73.3	0.7
150°-160°	55.9	0.5
160°-170°	36.3	0.4
170°-180°	12.2	0.1
0°-30°	2646.7	25.5
0°-40°	4313.6	41.6
0°-60°	7558.1	72.9
0°-90°	9764.4	94.2
90°-120°	253.3	2.4
90°-150°	495.1	4.8
90°-180°	600.0	5.8
0°-180°	10364.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3440	3440	3440	3440	3440	
5°	3426	3426	3413	3426	3426	325
15°	3282	3284	3276	3294	3297	925
25°	3002	3007	3022	3049	3051	1382
35°	2618	2653	2677	2683	2689	1639
45°	2162	2199	2224	2241	2245	1671
55°	1672	1688	1716	1741	1744	1490
65°	1126	1147	1189	1227	1234	1119
75°	592	624	688	728	813	630
85°	157	214	288	326	336	169
90°	30	85	163	207	216	23
95°	25	59	100	135	140	23
105°	47	46	68	108	100	50
115°	70	78	59	68	72	70
125°	89	89	106	91	76	80
135°	104	102	112	125	121	80
145°	114	118	112	118	123	72
155°	121	129	121	116	116	56
165°	125	129	133	129	125	35
175°	127	127	127	127	123	12
180°	125	125	125	125	125	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3439.5	3439.5	3439.5	3439.5	3439.5
2.5°	3441.4	3439.5	3424.3	3435.7	3439.5
5°	3426.2	3426.2	3412.9	3426.2	3426.2
7.5°	3405.3	3403.4	3392.1	3403.4	3407.2
10°	3373.1	3373.1	3361.7	3375.0	3376.9
12.5°	3331.4	3333.3	3323.8	3337.1	3340.9
15°	3282.1	3284.0	3276.4	3293.5	3297.3
17.5°	3221.4	3225.2	3223.3	3242.3	3248.0
20°	3155.0	3166.4	3162.6	3187.3	3193.0
22.5°	3081.1	3088.7	3096.3	3122.8	3126.6
25°	3001.5	3007.2	3022.3	3048.9	3050.8
27.5°	2914.2	2929.4	2942.7	2963.5	2971.1
30°	2823.2	2844.1	2859.3	2878.2	2880.1
32.5°	2724.6	2753.1	2772.0	2781.5	2787.2
35°	2618.5	2652.6	2677.2	2682.9	2688.6
37.5°	2514.2	2550.2	2555.9	2582.4	2584.3
40°	2400.4	2442.1	2445.9	2470.6	2476.3
42.5°	2288.5	2311.3	2337.8	2360.6	2358.7
45°	2161.5	2199.4	2224.1	2241.1	2244.9
47.5°	2044.0	2087.6	2095.2	2116.0	2123.6
50°	1930.2	1964.3	1973.8	2000.3	1996.6
52.5°	1791.8	1829.7	1858.1	1867.6	1867.6
55°	1672.3	1687.5	1715.9	1740.6	1744.4
57.5°	1530.1	1554.8	1581.3	1615.4	1619.2
60°	1408.8	1427.7	1448.6	1505.5	1549.1
62.5°	1266.6	1285.5	1315.9	1363.3	1363.3
65°	1126.3	1147.1	1188.8	1226.8	1234.3
67.5°	999.2	1018.2	1088.3	1097.8	1103.5
70°	855.1	879.8	932.9	968.9	982.2
72.5°	724.3	747.0	803.9	849.4	857.0
75°	591.6	623.8	688.3	728.1	813.4
77.5°	470.2	510.0	570.7	618.1	635.2
80°	352.7	396.3	470.2	506.2	513.8
82.5°	244.6	301.5	365.9	419.0	432.3
85°	157.4	214.3	288.2	326.1	335.6
87.5°	83.4	144.1	216.2	261.7	273.0
90°	30.3	85.3	163.1	206.7	216.2
92.5°	26.5	60.7	123.2	161.2	170.6
95°	24.6	58.8	100.5	134.6	140.3
97.5°	28.4	51.2	89.1	106.2	111.9
100°	34.1	45.5	85.3	102.4	108.1
102.5°	39.8	41.7	77.7	92.9	92.9
105°	47.4	45.5	68.3	108.1	100.5
107.5°	53.1	60.7	66.4	79.6	87.2
110°	60.7	66.4	58.8	75.8	77.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	66.4	73.9	58.8	73.9	73.9
115°	70.2	77.7	58.8	68.3	72.1
117.5°	75.8	79.6	73.9	66.4	66.4
120°	81.5	81.5	91.0	64.5	64.5
122.5°	85.3	85.3	96.7	72.1	64.5
125°	89.1	89.1	106.2	91.0	75.8
127.5°	92.9	92.9	110.0	104.3	94.8
130°	96.7	94.8	113.8	111.9	106.2
132.5°	100.5	98.6	113.8	117.6	113.8
135°	104.3	102.4	111.9	125.1	121.3
137.5°	106.2	106.2	110.0	127.0	127.0
140°	110.0	110.0	110.0	125.1	130.8
142.5°	111.9	113.8	111.9	121.3	127.0
145°	113.8	117.6	111.9	117.6	123.2
147.5°	115.7	121.3	111.9	117.6	117.6
150°	119.5	123.2	113.8	115.7	117.6
152.5°	119.5	127.0	117.6	115.7	115.7
155°	121.3	128.9	121.3	115.7	115.7
157.5°	123.2	128.9	123.2	117.6	115.7
160°	123.2	130.8	127.0	121.3	117.6
162.5°	125.1	130.8	130.8	125.1	121.3
165°	125.1	128.9	132.7	128.9	125.1
167.5°	125.1	128.9	132.7	130.8	127.0
170°	127.0	128.9	130.8	130.8	127.0
172.5°	127.0	127.0	128.9	128.9	127.0
175°	127.0	127.0	127.0	127.0	123.2
177.5°	127.0	127.0	127.0	125.1	121.3
180°	125.1	125.1	125.1	125.1	125.1

(END OF REPORT)