

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: **8ILED-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: 8ILED-LD5-14-W-ASYWG-UNV-L840-CD2-U
Description: Metalux 8' 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: 10698.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

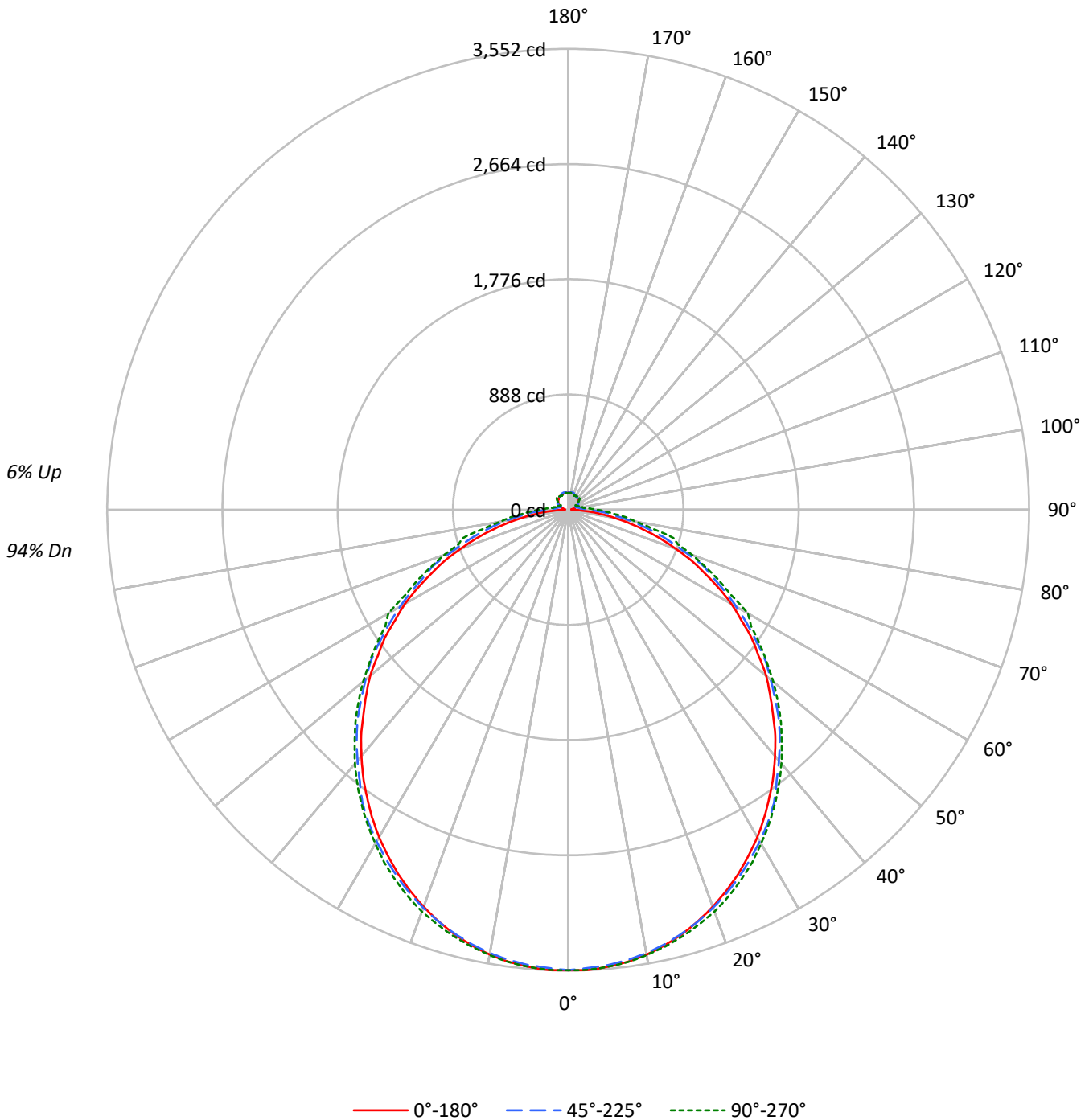
Input Watts (W): 100.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5211	5211	5211
5°	5205	5152	5162
10°	5178	5095	5097
15°	5131	5024	5025
20°	5064	4945	4952
25°	4989	4858	4853
30°	4904	4766	4740
35°	4801	4671	4620
40°	4698	4512	4487
45°	4574	4388	4337
50°	4483	4220	4165
55°	4340	4037	3987
60°	4178	3821	3948
65°	3932	3598	3586
70°	3662	3343	3347
75°	3308	3051	3384
80°	2873	2758	2770
85°	2393	2527	2596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.6	3.1
10°-20°	956.9	8.9
20°-30°	1439.6	13.5
30°-40°	1720.6	16.1
40°-50°	1765.2	16.5
50°-60°	1583.9	14.8
60°-70°	1217.0	11.4
70°-80°	744.7	7.0
80°-90°	315.8	3.0
90°-100°	111.2	1.0
100°-110°	77.7	0.7
110°-120°	72.5	0.7
120°-130°	84.5	0.8
130°-140°	89.4	0.8
140°-150°	75.7	0.7
150°-160°	57.7	0.5
160°-170°	37.5	0.4
170°-180°	12.6	0.1
0°-30°	2732.0	25.5
0°-40°	4452.6	41.6
0°-60°	7801.7	72.9
0°-90°	10079.1	94.2
90°-120°	261.4	2.4
90°-150°	511.1	4.8
90°-180°	619.0	5.8
0°-180°	10698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3550	3550	3550	3550	3550	
5°	3537	3537	3523	3537	3537	336
15°	3388	3390	3382	3400	3404	955
25°	3098	3104	3120	3147	3149	1427
35°	2703	2738	2764	2769	2775	1692
45°	2231	2270	2296	2313	2317	1725
55°	1726	1742	1771	1797	1801	1538
65°	1163	1184	1227	1266	1274	1155
75°	611	644	710	752	840	650
85°	162	221	298	337	346	174
90°	31	88	168	213	223	24
95°	25	61	104	139	145	23
105°	49	47	70	112	104	51
115°	72	80	61	70	74	72
125°	92	92	110	94	78	82
135°	108	106	116	129	125	83
145°	117	121	116	121	127	74
155°	125	133	125	119	119	58
165°	129	133	137	133	129	37
175°	131	131	131	131	127	13
180°	129	129	129	129	129	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3550.3	3550.3	3550.3	3550.3	3550.3
2.5°	3552.3	3550.3	3534.6	3546.4	3550.3
5°	3536.6	3536.6	3522.9	3536.6	3536.6
7.5°	3515.1	3513.1	3501.4	3513.1	3517.0
10°	3481.8	3481.8	3470.1	3483.8	3485.7
12.5°	3438.7	3440.7	3430.9	3444.6	3448.5
15°	3387.9	3389.8	3382.0	3399.6	3403.5
17.5°	3325.2	3329.1	3327.2	3346.8	3352.6
20°	3256.7	3268.5	3264.6	3290.0	3295.9
22.5°	3180.4	3188.2	3196.1	3223.5	3227.4
25°	3098.2	3104.1	3119.7	3147.1	3149.1
27.5°	3008.2	3023.8	3037.5	3059.1	3066.9
30°	2914.2	2935.8	2951.4	2971.0	2972.9
32.5°	2812.5	2841.8	2861.4	2871.2	2877.0
35°	2702.8	2738.1	2763.5	2769.4	2775.3
37.5°	2595.2	2632.4	2638.3	2665.7	2667.6
40°	2477.8	2520.8	2524.7	2550.2	2556.1
42.5°	2362.3	2385.8	2413.2	2436.7	2434.7
45°	2231.2	2270.3	2295.8	2313.4	2317.3
47.5°	2109.8	2154.8	2162.7	2184.2	2192.0
50°	1992.4	2027.6	2037.4	2064.8	2060.9
52.5°	1849.5	1888.7	1918.0	1927.8	1927.8
55°	1726.2	1741.9	1771.2	1796.7	1800.6
57.5°	1579.4	1604.9	1632.3	1667.5	1671.4
60°	1454.2	1473.7	1495.3	1554.0	1599.0
62.5°	1307.4	1327.0	1358.3	1407.2	1407.2
65°	1162.6	1184.1	1227.1	1266.3	1274.1
67.5°	1031.4	1051.0	1123.4	1133.2	1139.1
70°	882.7	908.1	962.9	1000.1	1013.8
72.5°	747.6	771.1	829.8	876.8	884.6
75°	610.6	643.9	710.5	751.6	839.6
77.5°	485.4	526.5	589.1	638.0	655.7
80°	364.0	409.0	485.4	522.6	530.4
82.5°	252.5	311.2	377.7	432.5	446.2
85°	162.4	221.2	297.5	336.6	346.4
87.5°	86.1	148.7	223.1	270.1	281.8
90°	31.3	88.1	168.3	213.3	223.1
92.5°	27.4	62.6	127.2	166.4	176.1
95°	25.4	60.7	103.7	139.0	144.8
97.5°	29.4	52.8	92.0	109.6	115.5
100°	35.2	47.0	88.1	105.7	111.6
102.5°	41.1	43.1	80.2	95.9	95.9
105°	48.9	47.0	70.5	111.6	103.7
107.5°	54.8	62.6	68.5	82.2	90.0
110°	62.6	68.5	60.7	78.3	80.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	68.5	76.3	60.7	76.3	76.3
115°	72.4	80.2	60.7	70.5	74.4
117.5°	78.3	82.2	76.3	68.5	68.5
120°	84.2	84.2	93.9	66.5	66.5
122.5°	88.1	88.1	99.8	74.4	66.5
125°	92.0	92.0	109.6	93.9	78.3
127.5°	95.9	95.9	113.5	107.6	97.9
130°	99.8	97.9	117.4	115.5	109.6
132.5°	103.7	101.8	117.4	121.3	117.4
135°	107.6	105.7	115.5	129.2	125.3
137.5°	109.6	109.6	113.5	131.1	131.1
140°	113.5	113.5	113.5	129.2	135.0
142.5°	115.5	117.4	115.5	125.3	131.1
145°	117.4	121.3	115.5	121.3	127.2
147.5°	119.4	125.3	115.5	121.3	121.3
150°	123.3	127.2	117.4	119.4	121.3
152.5°	123.3	131.1	121.3	119.4	119.4
155°	125.3	133.1	125.3	119.4	119.4
157.5°	127.2	133.1	127.2	121.3	119.4
160°	127.2	135.0	131.1	125.3	121.3
162.5°	129.2	135.0	135.0	129.2	125.3
165°	129.2	133.1	137.0	133.1	129.2
167.5°	129.2	133.1	137.0	135.0	131.1
170°	131.1	133.1	135.0	135.0	131.1
172.5°	131.1	131.1	133.1	133.1	131.1
175°	131.1	131.1	131.1	131.1	127.2
177.5°	131.1	131.1	131.1	129.2	125.3
180°	129.2	129.2	129.2	129.2	129.2

(END OF REPORT)