

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-W-ASYWG-UNV-L835-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 (P34184)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-7-W-ASYWG-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

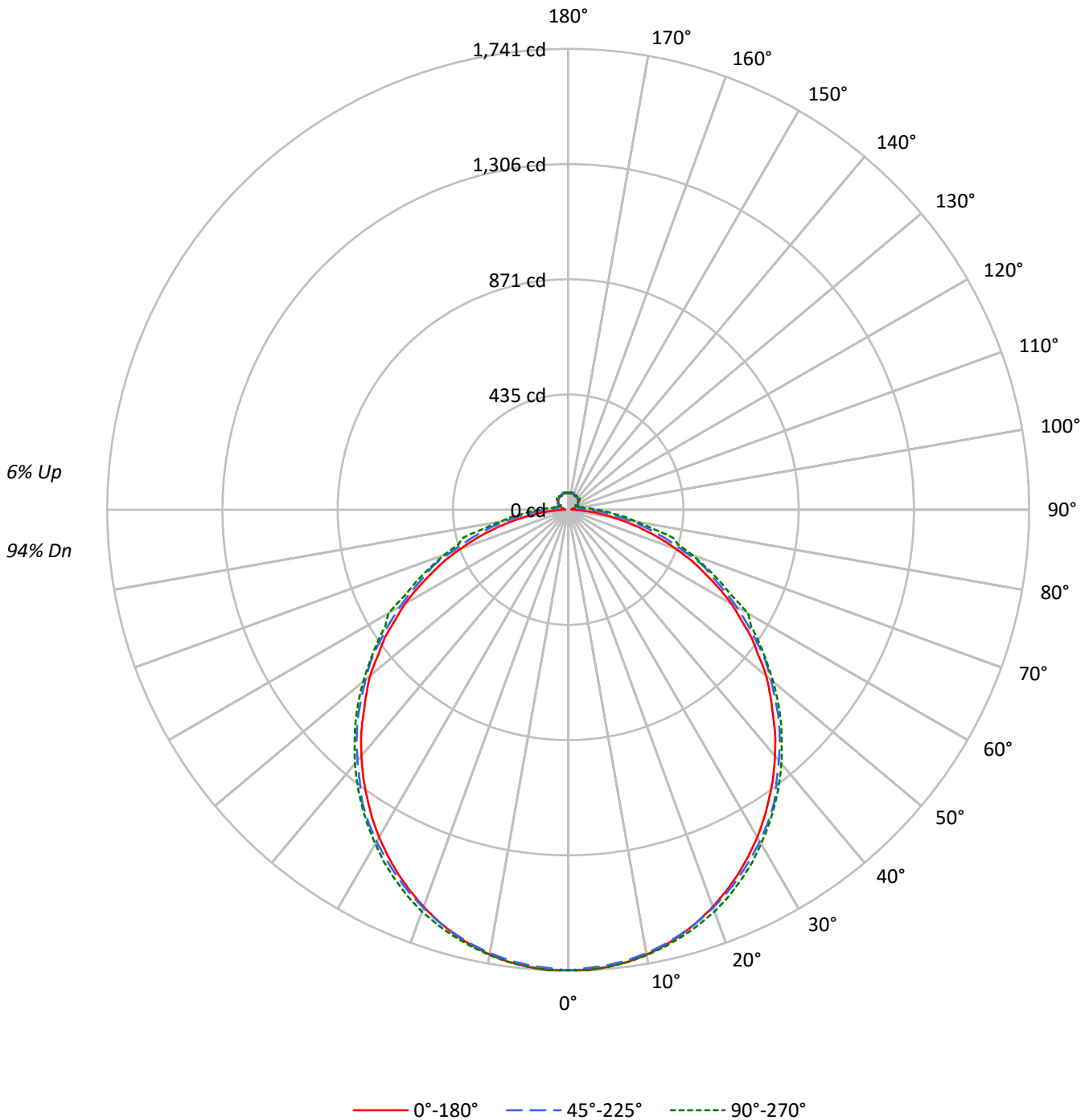
Lumens per Lamp: N/A
Luminaire Lumens: 5244.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
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°	5109	5109	5109
5°	5097	5047	5060
10°	5065	4987	4997
15°	5014	4914	4927
20°	4942	4832	4854
25°	4863	4743	4758
30°	4773	4649	4647
35°	4666	4552	4529
40°	4559	4393	4399
45°	4430	4267	4252
50°	4331	4098	4083
55°	4182	3914	3908
60°	4011	3697	3871
65°	3757	3472	3516
70°	3475	3214	3282
75°	3105	2918	3318
80°	2641	2615	2715
85°	2085	2357	2545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.5	3.1
10°-20°	469.0	8.9
20°-30°	705.7	13.5
30°-40°	843.4	16.1
40°-50°	865.3	16.5
50°-60°	776.4	14.8
60°-70°	596.6	11.4
70°-80°	365.0	7.0
80°-90°	154.8	3.0
90°-100°	54.5	1.0
100°-110°	38.1	0.7
110°-120°	35.6	0.7
120°-130°	41.4	0.8
130°-140°	43.8	0.8
140°-150°	37.1	0.7
150°-160°	28.3	0.5
160°-170°	18.4	0.4
170°-180°	6.2	0.1
0°-30°	1339.2	25.5
0°-40°	2182.6	41.6
0°-60°	3824.3	72.9
0°-90°	4940.6	94.2
90°-120°	128.1	2.4
90°-150°	250.5	4.8
90°-180°	303.0	5.8
0°-180°	5244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1740	1740	1740	1740	1740	
5°	1734	1734	1727	1734	1734	165
15°	1661	1662	1658	1666	1668	468
25°	1519	1522	1529	1543	1544	700
35°	1325	1342	1355	1358	1360	829
45°	1094	1113	1125	1134	1136	846
55°	846	854	868	881	883	754
65°	570	580	602	621	625	566
75°	299	316	348	368	412	319
85°	80	108	146	165	170	85
90°	15	43	82	105	109	12
95°	12	30	51	68	71	12
105°	24	23	34	55	51	25
115°	36	39	30	34	36	36
125°	45	45	54	46	38	40
135°	53	52	57	63	61	41
145°	58	60	57	60	62	36
155°	61	65	61	58	58	28
165°	63	65	67	65	63	18
175°	64	64	64	64	62	6
180°	63	63	63	63	63	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1740.3	1740.3	1740.3	1740.3	1740.3
2.5°	1741.3	1740.3	1732.6	1738.4	1740.3
5°	1733.6	1733.6	1726.9	1733.6	1733.6
7.5°	1723.0	1722.1	1716.3	1722.1	1724.0
10°	1706.7	1706.7	1701.0	1707.7	1708.6
12.5°	1685.6	1686.6	1681.8	1688.5	1690.4
15°	1660.7	1661.6	1657.8	1666.4	1668.4
17.5°	1630.0	1631.9	1630.9	1640.5	1643.4
20°	1596.4	1602.2	1600.2	1612.7	1615.6
22.5°	1559.0	1562.8	1566.7	1580.1	1582.0
25°	1518.7	1521.6	1529.2	1542.7	1543.6
27.5°	1474.6	1482.2	1488.9	1499.5	1503.3
30°	1428.5	1439.1	1446.7	1456.3	1457.3
32.5°	1378.6	1393.0	1402.6	1407.4	1410.3
35°	1324.9	1342.2	1354.6	1357.5	1360.4
37.5°	1272.1	1290.4	1293.2	1306.7	1307.6
40°	1214.6	1235.7	1237.6	1250.1	1252.9
42.5°	1158.0	1169.5	1182.9	1194.4	1193.5
45°	1093.7	1112.9	1125.3	1134.0	1135.9
47.5°	1034.2	1056.3	1060.1	1070.7	1074.5
50°	976.6	993.9	998.7	1012.1	1010.2
52.5°	906.6	925.8	940.2	945.0	945.0
55°	846.2	853.8	868.2	880.7	882.6
57.5°	774.2	786.7	800.1	817.4	819.3
60°	712.8	722.4	733.0	761.7	783.8
62.5°	640.9	650.5	665.8	689.8	689.8
65°	569.9	580.4	601.5	620.7	624.6
67.5°	505.6	515.2	550.7	555.5	558.4
70°	432.7	445.1	472.0	490.2	497.0
72.5°	366.5	378.0	406.8	429.8	433.6
75°	299.3	315.6	348.3	368.4	411.6
77.5°	237.9	258.1	288.8	312.8	321.4
80°	178.4	200.5	237.9	256.2	260.0
82.5°	123.8	152.5	185.2	212.0	218.7
85°	79.6	108.4	145.8	165.0	169.8
87.5°	42.2	72.9	109.4	132.4	138.1
90°	15.3	43.2	82.5	104.6	109.4
92.5°	13.4	30.7	62.4	81.5	86.3
95°	12.5	29.7	50.8	68.1	71.0
97.5°	14.4	25.9	45.1	53.7	56.6
100°	17.3	23.0	43.2	51.8	54.7
102.5°	20.1	21.1	39.3	47.0	47.0
105°	24.0	23.0	34.5	54.7	50.8
107.5°	26.9	30.7	33.6	40.3	44.1
110°	30.7	33.6	29.7	38.4	39.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	33.6	37.4	29.7	37.4	37.4
115°	35.5	39.3	29.7	34.5	36.5
117.5°	38.4	40.3	37.4	33.6	33.6
120°	41.3	41.3	46.0	32.6	32.6
122.5°	43.2	43.2	48.9	36.5	32.6
125°	45.1	45.1	53.7	46.0	38.4
127.5°	47.0	47.0	55.6	52.8	48.0
130°	48.9	48.0	57.6	56.6	53.7
132.5°	50.8	49.9	57.6	59.5	57.6
135°	52.8	51.8	56.6	63.3	61.4
137.5°	53.7	53.7	55.6	64.3	64.3
140°	55.6	55.6	55.6	63.3	66.2
142.5°	56.6	57.6	56.6	61.4	64.3
145°	57.6	59.5	56.6	59.5	62.4
147.5°	58.5	61.4	56.6	59.5	59.5
150°	60.4	62.4	57.6	58.5	59.5
152.5°	60.4	64.3	59.5	58.5	58.5
155°	61.4	65.2	61.4	58.5	58.5
157.5°	62.4	65.2	62.4	59.5	58.5
160°	62.4	66.2	64.3	61.4	59.5
162.5°	63.3	66.2	66.2	63.3	61.4
165°	63.3	65.2	67.2	65.2	63.3
167.5°	63.3	65.2	67.2	66.2	64.3
170°	64.3	65.2	66.2	66.2	64.3
172.5°	64.3	64.3	65.2	65.2	64.3
175°	64.3	64.3	64.3	64.3	62.4
177.5°	64.3	64.3	64.3	63.3	61.4
180°	63.3	63.3	63.3	63.3	63.3

(END OF REPORT)