

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-LD5-9-W-ASYWG-UNV-L850-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-LD5-9-W-ASYWG-UNV-L850-CD1-U  
Description: Metalux 4' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION  
  
Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

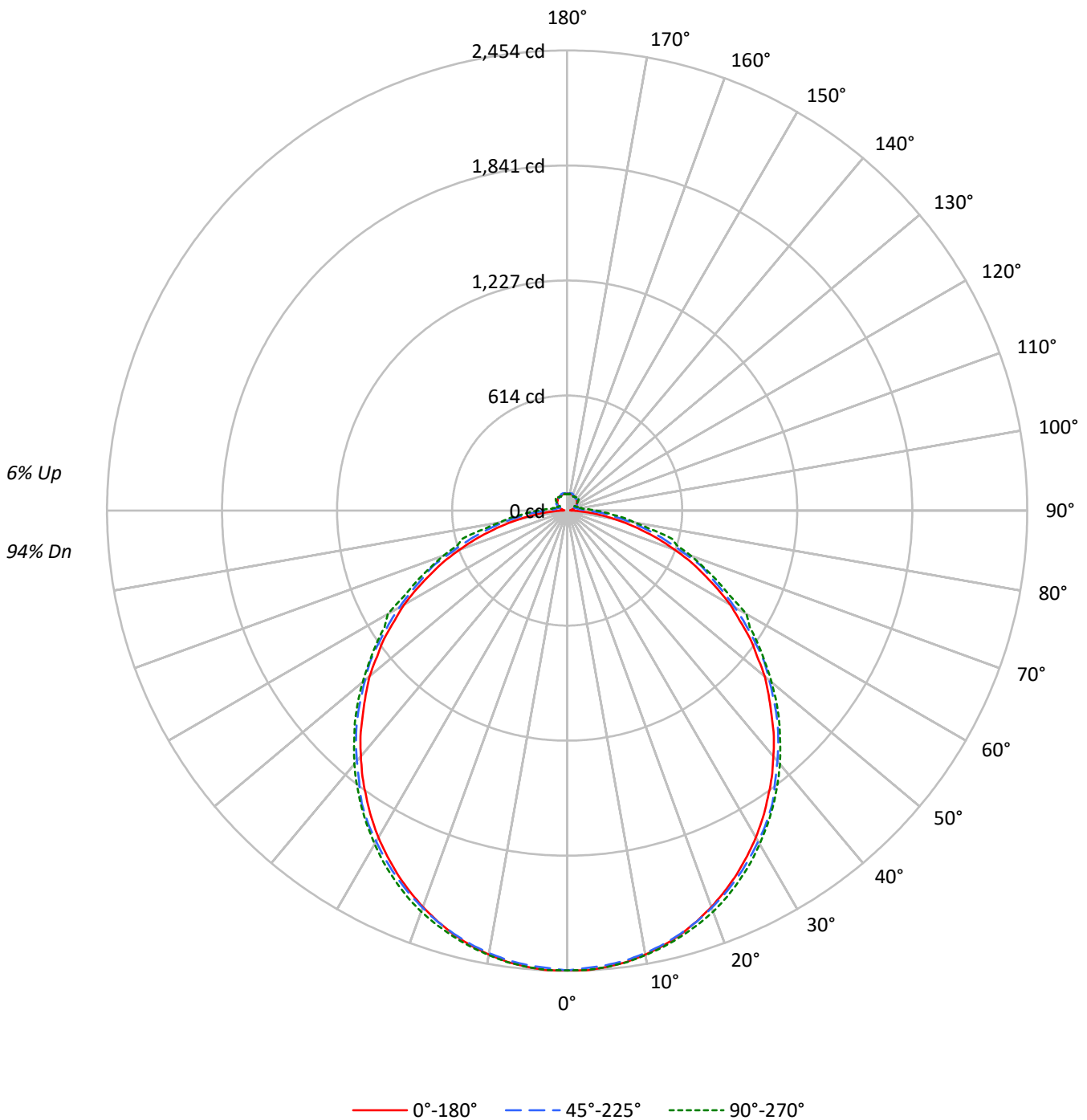
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7389.0 lumens  
Efficiency: N/A  
Efficacy: 112.5 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): 65.7  
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°	7199	7199	7199
5°	7183	7111	7130
10°	7137	7027	7041
15°	7064	6923	6942
20°	6964	6809	6840
25°	6851	6684	6704
30°	6726	6551	6548
35°	6575	6414	6382
40°	6424	6190	6198
45°	6242	6013	5991
50°	6103	5774	5753
55°	5892	5515	5507
60°	5652	5208	5454
65°	5294	4893	4954
70°	4897	4529	4624
75°	4376	4111	4674
80°	3722	3685	3826
85°	2939	3322	3587



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.8	3.1
10°-20°	660.9	8.9
20°-30°	994.3	13.5
30°-40°	1188.4	16.1
40°-50°	1219.2	16.5
50°-60°	1094.0	14.8
60°-70°	840.6	11.4
70°-80°	514.3	7.0
80°-90°	218.1	3.0
90°-100°	76.8	1.0
100°-110°	53.7	0.7
110°-120°	50.1	0.7
120°-130°	58.4	0.8
130°-140°	61.8	0.8
140°-150°	52.3	0.7
150°-160°	39.9	0.5
160°-170°	25.9	0.4
170°-180°	8.7	0.1
0°-30°	1887.0	25.5
0°-40°	3075.3	41.6
0°-60°	5388.5	72.9
0°-90°	6961.5	94.2
90°-120°	180.6	2.4
90°-150°	353.0	4.8
90°-180°	427.0	5.8
0°-180°	7389.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2452	2452	2452	2452	2452	
5°	2443	2443	2433	2443	2443	232
15°	2340	2341	2336	2348	2351	660
25°	2140	2144	2155	2174	2175	986
35°	1867	1891	1909	1913	1917	1169
45°	1541	1568	1586	1598	1600	1192
55°	1192	1203	1223	1241	1244	1062
65°	803	818	848	875	880	798
75°	422	445	491	519	580	449
85°	112	153	206	232	239	120
90°	22	61	116	147	154	17
95°	18	42	72	96	100	16
105°	34	32	49	77	72	35
115°	50	55	42	49	51	50
125°	64	64	76	65	54	57
135°	74	73	80	89	86	57
145°	81	84	80	84	88	51
155°	86	92	86	82	82	40
165°	89	92	95	92	89	25
175°	91	91	91	91	88	9
180°	89	89	89	89	89	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2452.2	2452.2	2452.2	2452.2	2452.2
2.5°	2453.5	2452.2	2441.3	2449.5	2452.2
5°	2442.7	2442.7	2433.2	2442.7	2442.7
7.5°	2427.8	2426.5	2418.4	2426.5	2429.2
10°	2404.8	2404.8	2396.7	2406.2	2407.5
12.5°	2375.1	2376.5	2369.7	2379.2	2381.9
15°	2340.0	2341.3	2335.9	2348.1	2350.8
17.5°	2296.7	2299.4	2298.1	2311.6	2315.6
20°	2249.4	2257.5	2254.8	2272.4	2276.4
22.5°	2196.7	2202.1	2207.5	2226.4	2229.1
25°	2139.9	2143.9	2154.8	2173.7	2175.0
27.5°	2077.7	2088.5	2098.0	2112.9	2118.3
30°	2012.8	2027.7	2038.5	2052.0	2053.4
32.5°	1942.5	1962.8	1976.3	1983.1	1987.1
35°	1866.8	1891.2	1908.7	1912.8	1916.8
37.5°	1792.5	1818.2	1822.2	1841.1	1842.5
40°	1711.4	1741.1	1743.8	1761.4	1765.4
42.5°	1631.6	1647.8	1666.8	1683.0	1681.6
45°	1541.0	1568.1	1585.7	1597.8	1600.5
47.5°	1457.2	1488.3	1493.7	1508.6	1514.0
50°	1376.1	1400.5	1407.2	1426.1	1423.4
52.5°	1277.4	1304.5	1324.8	1331.5	1331.5
55°	1192.3	1203.1	1223.4	1240.9	1243.7
57.5°	1090.9	1108.5	1127.4	1151.7	1154.4
60°	1004.4	1017.9	1032.8	1073.3	1104.4
62.5°	903.0	916.5	938.1	971.9	971.9
65°	803.0	817.8	847.6	874.6	880.0
67.5°	712.4	725.9	775.9	782.7	786.7
70°	609.7	627.2	665.1	690.8	700.2
72.5°	516.4	532.6	573.2	605.6	611.0
75°	421.8	444.7	490.7	519.1	579.9
77.5°	335.2	363.6	406.9	440.7	452.9
80°	251.4	282.5	335.2	360.9	366.3
82.5°	174.4	214.9	260.9	298.7	308.2
85°	112.2	152.8	205.5	232.5	239.3
87.5°	59.5	102.7	154.1	186.5	194.7
90°	21.6	60.8	116.3	147.3	154.1
92.5°	18.9	43.3	87.9	114.9	121.7
95°	17.6	41.9	71.6	96.0	100.0
97.5°	20.3	36.5	63.5	75.7	79.8
100°	24.3	32.4	60.8	73.0	77.1
102.5°	28.4	29.7	55.4	66.2	66.2
105°	33.8	32.4	48.7	77.1	71.6
107.5°	37.9	43.3	47.3	56.8	62.2
110°	43.3	47.3	41.9	54.1	55.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	47.3	52.7	41.9	52.7	52.7
115°	50.0	55.4	41.9	48.7	51.4
117.5°	54.1	56.8	52.7	47.3	47.3
120°	58.1	58.1	64.9	46.0	46.0
122.5°	60.8	60.8	68.9	51.4	46.0
125°	63.5	63.5	75.7	64.9	54.1
127.5°	66.2	66.2	78.4	74.3	67.6
130°	68.9	67.6	81.1	79.8	75.7
132.5°	71.6	70.3	81.1	83.8	81.1
135°	74.3	73.0	79.8	89.2	86.5
137.5°	75.7	75.7	78.4	90.6	90.6
140°	78.4	78.4	78.4	89.2	93.3
142.5°	79.8	81.1	79.8	86.5	90.6
145°	81.1	83.8	79.8	83.8	87.9
147.5°	82.5	86.5	79.8	83.8	83.8
150°	85.2	87.9	81.1	82.5	83.8
152.5°	85.2	90.6	83.8	82.5	82.5
155°	86.5	91.9	86.5	82.5	82.5
157.5°	87.9	91.9	87.9	83.8	82.5
160°	87.9	93.3	90.6	86.5	83.8
162.5°	89.2	93.3	93.3	89.2	86.5
165°	89.2	91.9	94.6	91.9	89.2
167.5°	89.2	91.9	94.6	93.3	90.6
170°	90.6	91.9	93.3	93.3	90.6
172.5°	90.6	90.6	91.9	91.9	90.6
175°	90.6	90.6	90.6	90.6	87.9
177.5°	90.6	90.6	90.6	89.2	86.5
180°	89.2	89.2	89.2	89.2	89.2

(END OF REPORT)