

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-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-LD5-9-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**

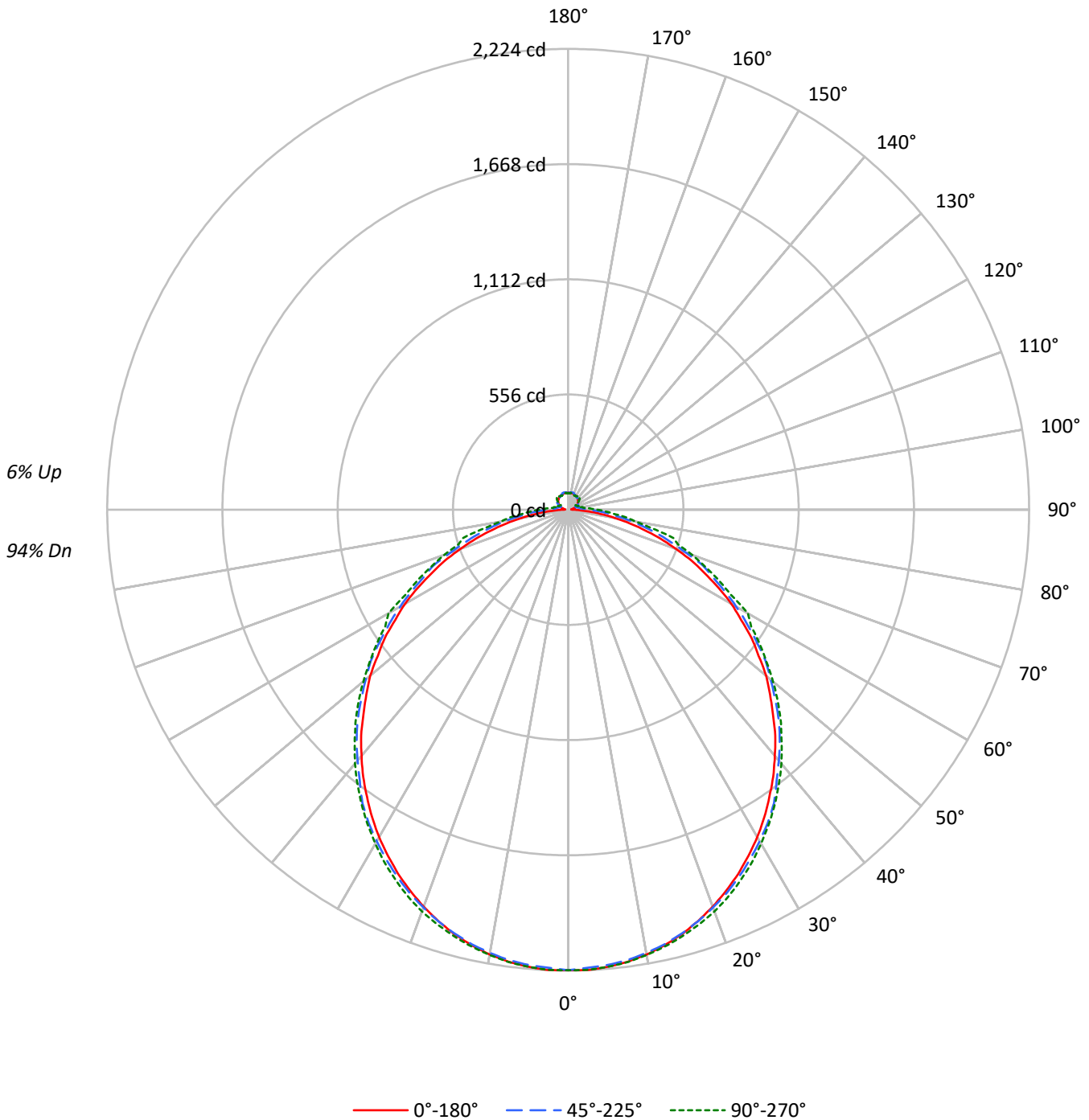
Lumens per Lamp: N/A  
Luminaire Lumens: 6697.0 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 65.7  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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°	6524	6524	6524
5°	6510	6445	6462
10°	6469	6369	6382
15°	6403	6275	6291
20°	6311	6171	6199
25°	6210	6058	6076
30°	6096	5938	5935
35°	5959	5814	5784
40°	5822	5610	5618
45°	5657	5450	5430
50°	5532	5233	5214
55°	5340	4998	4991
60°	5123	4721	4943
65°	4798	4434	4490
70°	4438	4105	4191
75°	3966	3726	4237
80°	3374	3340	3467
85°	2664	3010	3251



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.1	3.1
10°-20°	599.0	8.9
20°-30°	901.2	13.5
30°-40°	1077.1	16.1
40°-50°	1105.0	16.5
50°-60°	991.5	14.8
60°-70°	761.9	11.4
70°-80°	466.2	7.0
80°-90°	197.7	3.0
90°-100°	69.6	1.0
100°-110°	48.7	0.7
110°-120°	45.4	0.7
120°-130°	52.9	0.8
130°-140°	56.0	0.8
140°-150°	47.4	0.7
150°-160°	36.1	0.5
160°-170°	23.5	0.4
170°-180°	7.9	0.1
0°-30°	1710.2	25.5
0°-40°	2787.3	41.6
0°-60°	4883.9	72.9
0°-90°	6309.6	94.2
90°-120°	163.7	2.4
90°-150°	320.0	4.8
90°-180°	387.0	5.8
0°-180°	6697.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2222	2222	2222	2222	2222	
5°	2214	2214	2205	2214	2214	210
15°	2121	2122	2117	2128	2131	598
25°	1940	1943	1953	1970	1971	893
35°	1692	1714	1730	1734	1737	1059
45°	1397	1421	1437	1448	1451	1080
55°	1081	1090	1109	1125	1127	963
65°	728	741	768	793	798	723
75°	382	403	445	470	526	407
85°	102	138	186	211	217	109
90°	20	55	105	134	140	15
95°	16	38	65	87	91	15
105°	31	29	44	70	65	32
115°	45	50	38	44	47	45
125°	58	58	69	59	49	52
135°	67	66	72	81	78	52
145°	74	76	72	76	80	46
155°	78	83	78	75	75	36
165°	81	83	86	83	81	23
175°	82	82	82	82	80	8
180°	81	81	81	81	81	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2222.5	2222.5	2222.5	2222.5	2222.5
2.5°	2223.7	2222.5	2212.7	2220.1	2222.5
5°	2213.9	2213.9	2205.4	2213.9	2213.9
7.5°	2200.5	2199.2	2191.9	2199.2	2201.7
10°	2179.6	2179.6	2172.3	2180.8	2182.1
12.5°	2152.7	2153.9	2147.8	2156.3	2158.8
15°	2120.8	2122.0	2117.1	2128.2	2130.6
17.5°	2081.6	2084.1	2082.8	2095.1	2098.8
20°	2038.7	2046.1	2043.6	2059.6	2063.2
22.5°	1990.9	1995.8	2000.7	2017.9	2020.3
25°	1939.5	1943.2	1953.0	1970.1	1971.3
27.5°	1883.1	1892.9	1901.5	1915.0	1919.9
30°	1824.3	1837.8	1847.6	1859.8	1861.1
32.5°	1760.6	1779.0	1791.2	1797.4	1801.0
35°	1692.0	1714.0	1730.0	1733.7	1737.3
37.5°	1624.6	1647.9	1651.6	1668.7	1669.9
40°	1551.1	1578.1	1580.5	1596.4	1600.1
42.5°	1478.8	1493.5	1510.7	1525.4	1524.1
45°	1396.7	1421.2	1437.2	1448.2	1450.6
47.5°	1320.8	1348.9	1353.8	1367.3	1372.2
50°	1247.3	1269.3	1275.4	1292.6	1290.1
52.5°	1157.8	1182.3	1200.7	1206.8	1206.8
55°	1080.6	1090.4	1108.8	1124.7	1127.2
57.5°	988.7	1004.7	1021.8	1043.9	1046.3
60°	910.3	922.6	936.1	972.8	1001.0
62.5°	818.4	830.7	850.3	880.9	880.9
65°	727.8	741.2	768.2	792.7	797.6
67.5°	645.7	657.9	703.3	709.4	713.1
70°	552.6	568.5	602.8	626.1	634.7
72.5°	468.0	482.7	519.5	548.9	553.8
75°	382.3	403.1	444.7	470.5	525.6
77.5°	303.8	329.6	368.8	399.4	410.4
80°	227.9	256.1	303.8	327.1	332.0
82.5°	158.1	194.8	236.5	270.8	279.3
85°	101.7	138.4	186.2	210.7	216.9
87.5°	53.9	93.1	139.7	169.1	176.4
90°	19.6	55.1	105.4	133.5	139.7
92.5°	17.2	39.2	79.6	104.1	110.3
95°	15.9	38.0	64.9	87.0	90.7
97.5°	18.4	33.1	57.6	68.6	72.3
100°	22.1	29.4	55.1	66.2	69.8
102.5°	25.7	27.0	50.2	60.0	60.0
105°	30.6	29.4	44.1	69.8	64.9
107.5°	34.3	39.2	42.9	51.5	56.4
110°	39.2	42.9	38.0	49.0	50.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	42.9	47.8	38.0	47.8	47.8
115°	45.3	50.2	38.0	44.1	46.6
117.5°	49.0	51.5	47.8	42.9	42.9
120°	52.7	52.7	58.8	41.7	41.7
122.5°	55.1	55.1	62.5	46.6	41.7
125°	57.6	57.6	68.6	58.8	49.0
127.5°	60.0	60.0	71.1	67.4	61.3
130°	62.5	61.3	73.5	72.3	68.6
132.5°	64.9	63.7	73.5	76.0	73.5
135°	67.4	66.2	72.3	80.9	78.4
137.5°	68.6	68.6	71.1	82.1	82.1
140°	71.1	71.1	71.1	80.9	84.5
142.5°	72.3	73.5	72.3	78.4	82.1
145°	73.5	76.0	72.3	76.0	79.6
147.5°	74.7	78.4	72.3	76.0	76.0
150°	77.2	79.6	73.5	74.7	76.0
152.5°	77.2	82.1	76.0	74.7	74.7
155°	78.4	83.3	78.4	74.7	74.7
157.5°	79.6	83.3	79.6	76.0	74.7
160°	79.6	84.5	82.1	78.4	76.0
162.5°	80.9	84.5	84.5	80.9	78.4
165°	80.9	83.3	85.8	83.3	80.9
167.5°	80.9	83.3	85.8	84.5	82.1
170°	82.1	83.3	84.5	84.5	82.1
172.5°	82.1	82.1	83.3	83.3	82.1
175°	82.1	82.1	82.1	82.1	79.6
177.5°	82.1	82.1	82.1	80.9	78.4
180°	80.9	80.9	80.9	80.9	80.9

(END OF REPORT)