

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-L840-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-L840-CD1-U
Description: Metalux 4' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

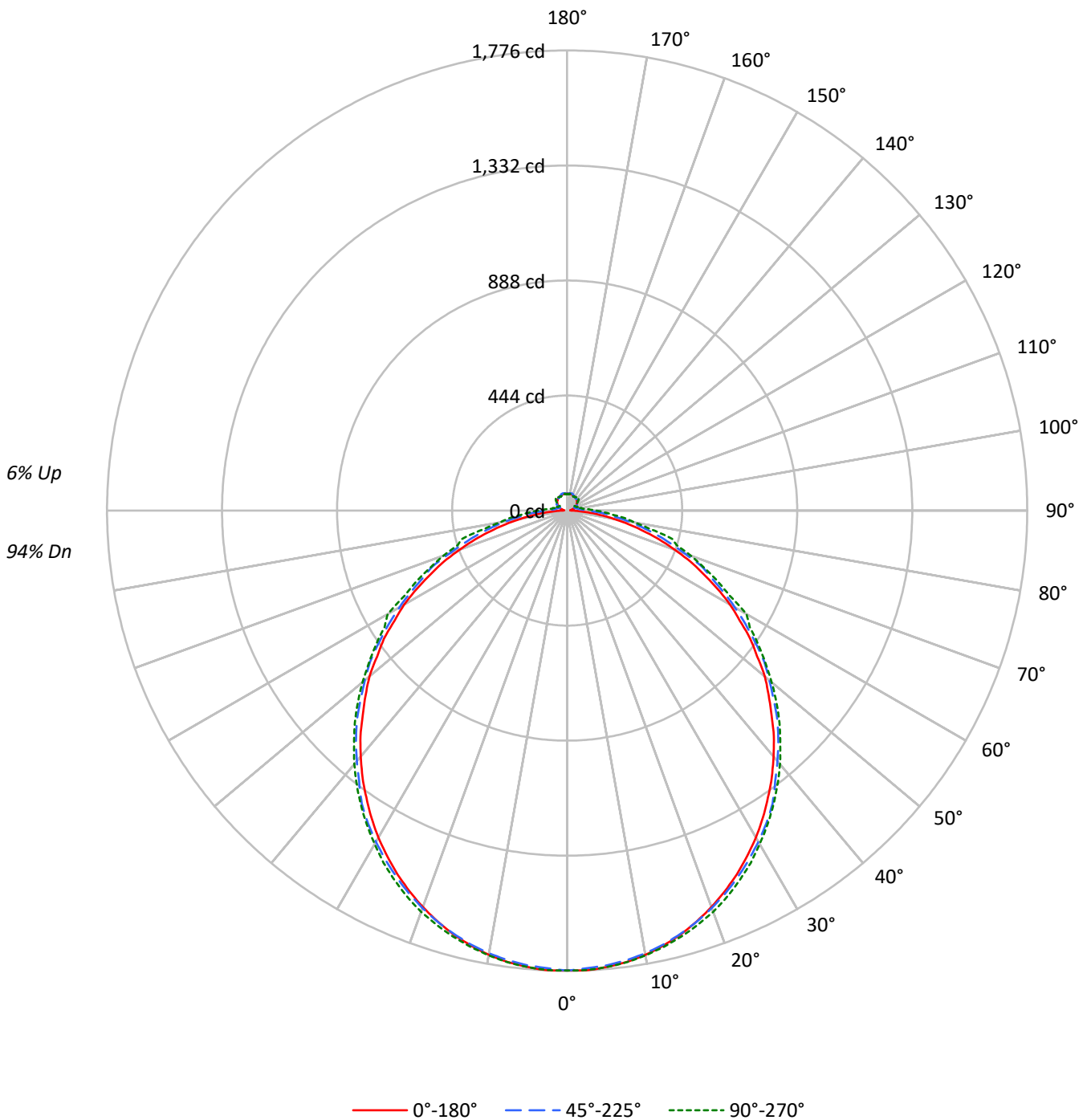
Lumens per Lamp: N/A
Luminaire Lumens: 5349.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
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°	5199	5148	5162
10°	5167	5087	5097
15°	5114	5012	5025
20°	5041	4929	4951
25°	4960	4839	4853
30°	4869	4743	4740
35°	4760	4644	4620
40°	4650	4481	4487
45°	4519	4353	4337
50°	4418	4180	4164
55°	4265	3992	3987
60°	4092	3770	3948
65°	3832	3542	3586
70°	3544	3279	3347
75°	3167	2976	3384
80°	2695	2668	2770
85°	2127	2404	2596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	3.1
10°-20°	478.4	8.9
20°-30°	719.8	13.5
30°-40°	860.3	16.1
40°-50°	882.6	16.5
50°-60°	792.0	14.8
60°-70°	608.5	11.4
70°-80°	372.3	7.0
80°-90°	157.9	3.0
90°-100°	55.6	1.0
100°-110°	38.9	0.7
110°-120°	36.3	0.7
120°-130°	42.3	0.8
130°-140°	44.7	0.8
140°-150°	37.8	0.7
150°-160°	28.9	0.5
160°-170°	18.7	0.4
170°-180°	6.3	0.1
0°-30°	1366.0	25.5
0°-40°	2226.3	41.6
0°-60°	3900.8	72.9
0°-90°	5039.6	94.2
90°-120°	130.7	2.4
90°-150°	255.5	4.8
90°-180°	309.0	5.8
0°-180°	5349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1768	1768	1762	1768	1768	168
15°	1694	1695	1691	1700	1702	477
25°	1549	1552	1560	1574	1574	714
35°	1351	1369	1382	1385	1388	846
45°	1116	1135	1148	1157	1159	863
55°	863	871	886	898	900	769
65°	581	592	614	633	637	578
75°	305	322	355	376	420	325
85°	81	111	149	168	173	87
90°	16	44	84	107	112	12
95°	13	30	52	70	72	12
105°	24	24	35	56	52	26
115°	36	40	30	35	37	36
125°	46	46	55	47	39	41
135°	54	53	58	65	63	41
145°	59	61	58	61	64	37
155°	63	66	63	60	60	29
165°	65	66	68	66	65	18
175°	66	66	66	66	64	6
180°	65	65	65	65	65	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1775.2	1775.2	1775.2	1775.2	1775.2
2.5°	1776.1	1775.2	1767.3	1773.2	1775.2
5°	1768.3	1768.3	1761.5	1768.3	1768.3
7.5°	1757.5	1756.6	1750.7	1756.6	1758.5
10°	1740.9	1740.9	1735.0	1741.9	1742.9
12.5°	1719.4	1720.4	1715.5	1722.3	1724.3
15°	1693.9	1694.9	1691.0	1699.8	1701.8
17.5°	1662.6	1664.6	1663.6	1673.4	1676.3
20°	1628.4	1634.2	1632.3	1645.0	1647.9
22.5°	1590.2	1594.1	1598.0	1611.7	1613.7
25°	1549.1	1552.0	1559.9	1573.6	1574.5
27.5°	1504.1	1511.9	1518.8	1529.5	1533.4
30°	1457.1	1467.9	1475.7	1485.5	1486.5
32.5°	1406.2	1420.9	1430.7	1435.6	1438.5
35°	1351.4	1369.0	1381.8	1384.7	1387.6
37.5°	1297.6	1316.2	1319.1	1332.8	1333.8
40°	1238.9	1260.4	1262.4	1275.1	1278.0
42.5°	1181.2	1192.9	1206.6	1218.3	1217.4
45°	1115.6	1135.2	1147.9	1156.7	1158.6
47.5°	1054.9	1077.4	1081.3	1092.1	1096.0
50°	996.2	1013.8	1018.7	1032.4	1030.4
52.5°	924.8	944.3	959.0	963.9	963.9
55°	863.1	870.9	885.6	898.3	900.3
57.5°	789.7	802.4	816.1	833.8	835.7
60°	727.1	736.9	747.6	777.0	799.5
62.5°	653.7	663.5	679.1	703.6	703.6
65°	581.3	592.0	613.6	633.1	637.1
67.5°	515.7	525.5	561.7	566.6	569.5
70°	441.3	454.1	481.5	500.1	506.9
72.5°	373.8	385.6	414.9	438.4	442.3
75°	305.3	322.0	355.2	375.8	419.8
77.5°	242.7	263.2	294.6	319.0	327.8
80°	182.0	204.5	242.7	261.3	265.2
82.5°	126.2	155.6	188.9	216.3	223.1
85°	81.2	110.6	148.7	168.3	173.2
87.5°	43.1	74.4	111.6	135.0	140.9
90°	15.7	44.0	84.2	106.7	111.6
92.5°	13.7	31.3	63.6	83.2	88.1
95°	12.7	30.3	51.9	69.5	72.4
97.5°	14.7	26.4	46.0	54.8	57.7
100°	17.6	23.5	44.0	52.8	55.8
102.5°	20.6	21.5	40.1	48.0	48.0
105°	24.5	23.5	35.2	55.8	51.9
107.5°	27.4	31.3	34.3	41.1	45.0
110°	31.3	34.3	30.3	39.1	40.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	34.3	38.2	30.3	38.2	38.2
115°	36.2	40.1	30.3	35.2	37.2
117.5°	39.1	41.1	38.2	34.3	34.3
120°	42.1	42.1	47.0	33.3	33.3
122.5°	44.0	44.0	49.9	37.2	33.3
125°	46.0	46.0	54.8	47.0	39.1
127.5°	48.0	48.0	56.8	53.8	48.9
130°	49.9	48.9	58.7	57.7	54.8
132.5°	51.9	50.9	58.7	60.7	58.7
135°	53.8	52.8	57.7	64.6	62.6
137.5°	54.8	54.8	56.8	65.6	65.6
140°	56.8	56.8	56.8	64.6	67.5
142.5°	57.7	58.7	57.7	62.6	65.6
145°	58.7	60.7	57.7	60.7	63.6
147.5°	59.7	62.6	57.7	60.7	60.7
150°	61.7	63.6	58.7	59.7	60.7
152.5°	61.7	65.6	60.7	59.7	59.7
155°	62.6	66.5	62.6	59.7	59.7
157.5°	63.6	66.5	63.6	60.7	59.7
160°	63.6	67.5	65.6	62.6	60.7
162.5°	64.6	67.5	67.5	64.6	62.6
165°	64.6	66.5	68.5	66.5	64.6
167.5°	64.6	66.5	68.5	67.5	65.6
170°	65.6	66.5	67.5	67.5	65.6
172.5°	65.6	65.6	66.5	66.5	65.6
175°	65.6	65.6	65.6	65.6	63.6
177.5°	65.6	65.6	65.6	64.6	62.6
180°	64.6	64.6	64.6	64.6	64.6

(END OF REPORT)