

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-LD5-5-W-CLWG-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 (P34178)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-5-W-CLWG-UNV-L840-CD1-U  
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD  
DISTRIBUTION

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

**Summary**

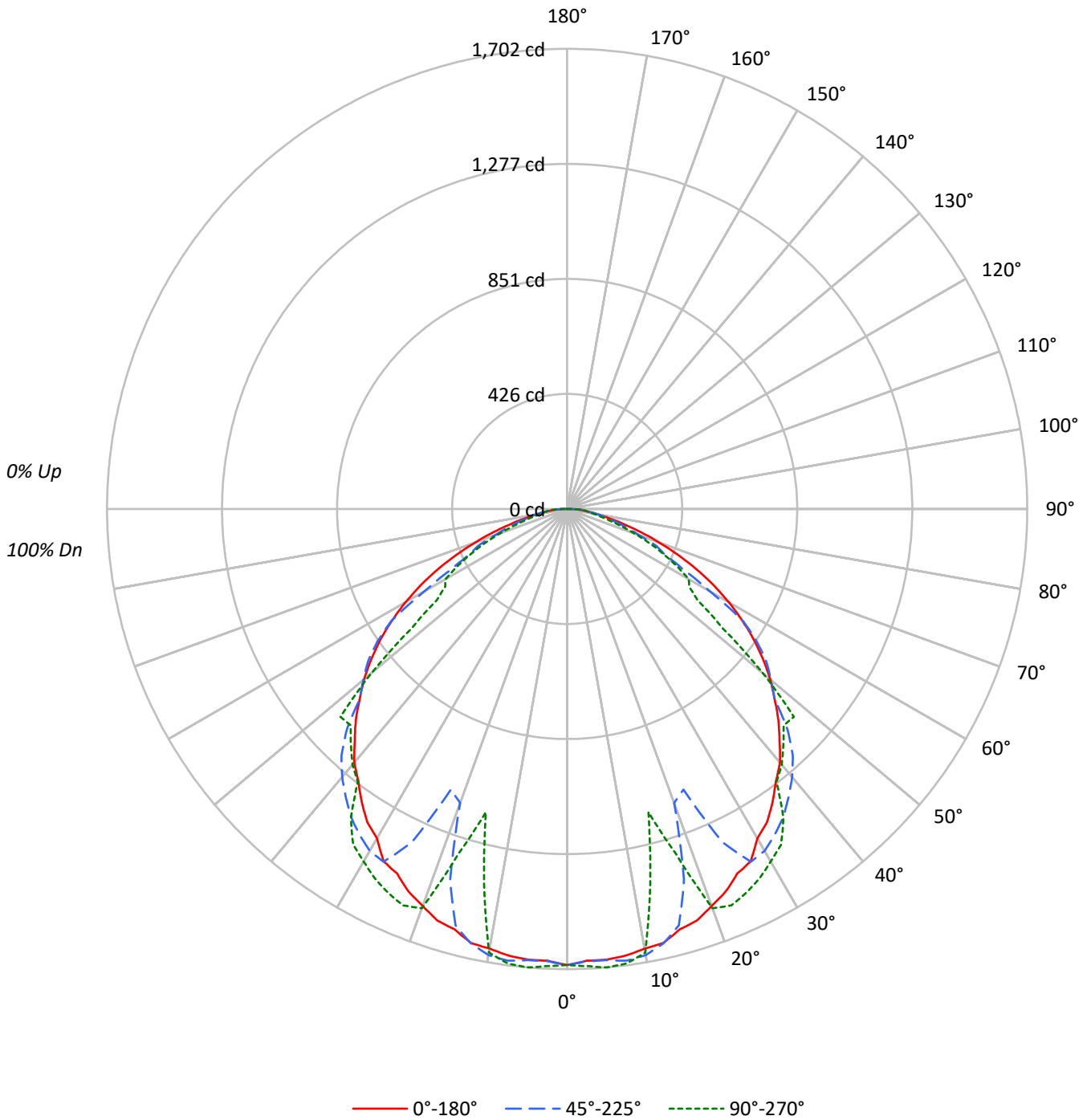
Lumens per Lamp: N/A  
Luminaire Lumens: 4368.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 33.5  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4952	4952	4952
5°	4921	4895	4968
10°	4901	4911	4870
15°	4860	4728	3429
20°	4838	3494	4723
25°	4766	4219	4829
30°	4700	4692	4802
35°	4664	4680	4644
40°	4598	4597	4334
45°	4478	4371	4237
50°	4349	4039	3829
55°	4168	3864	2608
60°	3888	3085	2565
65°	3480	2290	2210
70°	2897	1946	1754
75°	2245	1552	1291
80°	1675	1312	985
85°	1436	1099	988



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.2	3.7
10°-20°	424.5	9.7
20°-30°	676.8	15.5
30°-40°	812.3	18.6
40°-50°	863.9	19.8
50°-60°	706.8	16.2
60°-70°	448.1	10.3
70°-80°	207.0	4.7
80°-90°	68.3	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1261.5	28.9
0°-40°	2073.8	47.5
0°-60°	3644.6	83.4
0°-90°	4368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4368.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1674	1674	1675	1688	1702	159
15°	1610	1635	1595	1257	1161	456
25°	1488	1493	1360	1553	1567	689
35°	1324	992	1393	1419	1395	827
45°	1106	1110	1153	1124	1132	852
55°	843	888	857	664	589	751
65°	528	537	397	400	393	520
75°	216	205	185	171	160	237
85°	55	60	68	68	66	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1686.8	1686.8	1686.8	1686.8	1686.8
2.5°	1672.2	1675.0	1674.3	1686.8	1692.4
5°	1673.6	1674.3	1675.0	1688.2	1702.1
7.5°	1666.0	1680.6	1685.4	1680.6	1695.1
10°	1651.4	1664.6	1675.0	1660.4	1665.3
12.5°	1643.8	1663.2	1645.9	1574.4	1419.1
15°	1609.8	1634.8	1595.2	1256.8	1161.1
17.5°	1595.9	1612.6	1437.8	1155.5	1336.5
20°	1562.7	1585.5	1156.9	1485.7	1571.7
22.5°	1532.1	1548.8	1122.9	1562.7	1586.9
25°	1488.4	1492.6	1360.1	1552.9	1566.8
27.5°	1469.7	1407.3	1471.1	1532.8	1540.5
30°	1406.6	1278.3	1460.0	1505.1	1505.8
32.5°	1374.7	1113.2	1428.8	1464.9	1472.5
35°	1324.1	992.5	1392.7	1419.1	1394.8
37.5°	1268.6	975.2	1344.9	1331.0	1272.0
40°	1224.9	1064.0	1294.9	1208.9	1234.6
42.5°	1163.1	1118.1	1235.3	1179.1	1184.0
45°	1105.6	1110.4	1152.7	1124.3	1131.9
47.5°	1040.4	1072.3	1039.7	1077.1	1137.5
50°	980.7	1014.7	984.2	1045.9	947.4
52.5°	912.8	955.1	929.4	841.3	726.9
55°	843.4	887.8	857.3	664.5	588.9
57.5°	767.8	804.6	772.7	544.5	534.8
60°	690.8	719.9	611.7	495.9	519.5
62.5°	609.7	627.7	482.7	457.1	455.7
65°	527.8	536.8	396.7	399.5	392.6
67.5°	442.5	446.7	357.2	338.5	328.1
70°	360.7	357.9	285.8	275.4	265.6
72.5°	285.8	272.6	232.4	218.5	206.7
75°	216.4	205.3	185.2	171.3	160.2
77.5°	160.9	154.7	145.0	146.3	122.8
80°	113.1	113.7	119.3	101.3	94.3
82.5°	78.4	82.5	85.3	83.9	81.8
85°	54.8	59.6	68.0	68.0	65.9
87.5°	27.7	40.9	54.8	58.3	56.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)