

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-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 (P34173)  
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-UNV-L840-CD1-U  
Description: Metalux 4' ILED WITH OPEN WIDE DISTRIBUTION

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

**Summary**

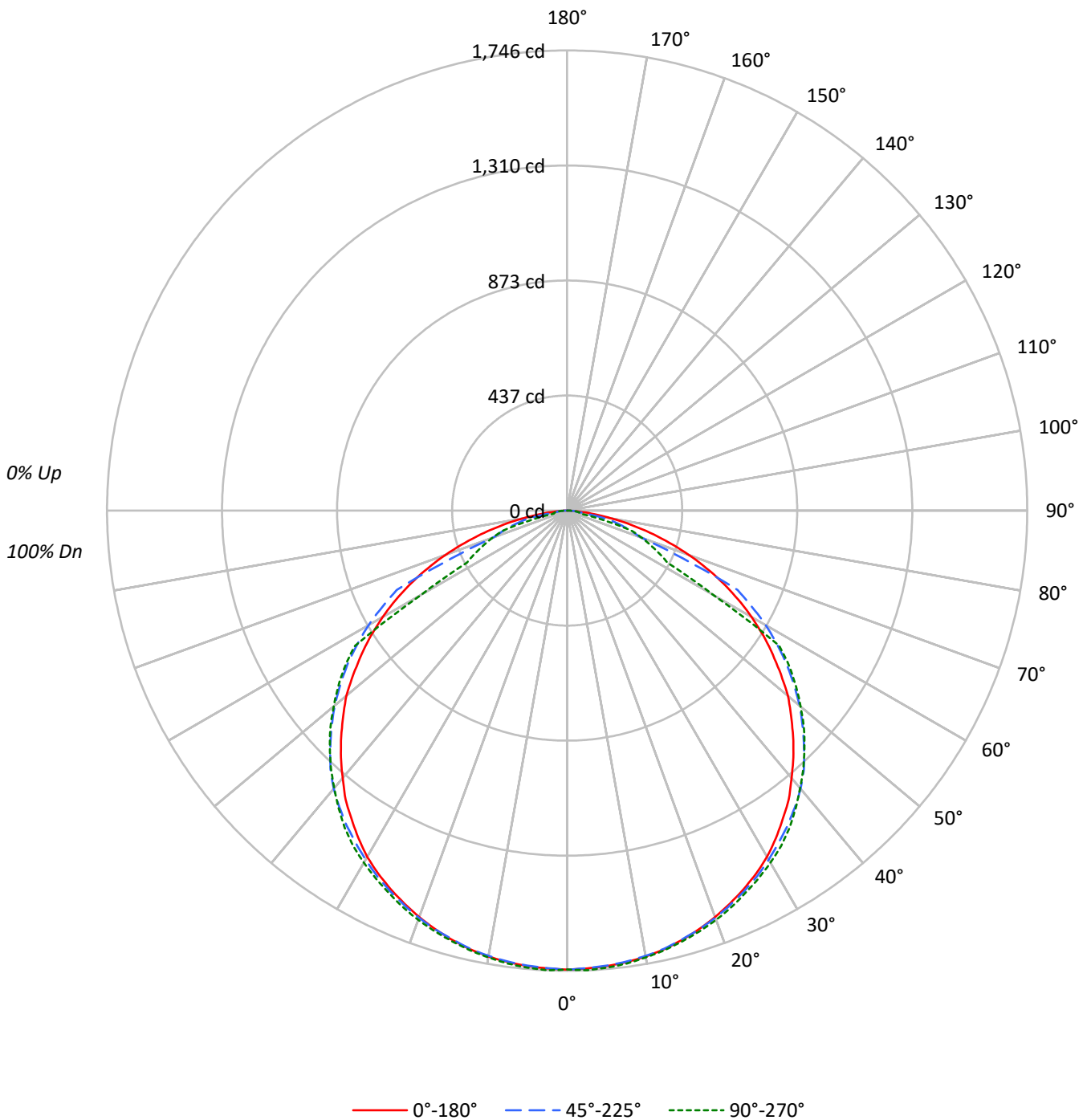
Lumens per Lamp: N/A  
Luminaire Lumens: 5026.0 lumens  
Efficiency: N/A  
Efficacy: 150.0 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

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	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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

	0°	45°	90°
0°	5113	5113	5113
5°	5101	5066	5082
10°	5099	5031	5035
15°	5091	4991	4995
20°	5081	4966	4966
25°	5074	4938	4934
30°	5069	4915	4919
35°	5027	4902	4896
40°	4973	4892	4829
45°	4911	4819	4767
50°	4851	4725	4673
55°	4706	4587	4558
60°	4551	4393	3165
65°	4308	4120	2171
70°	3939	2007	1988
75°	3368	1743	1241
80°	2495	1029	508
85°	1236	516	468



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.2	3.3
10°-20°	477.0	9.5
20°-30°	735.5	14.6
30°-40°	910.7	18.1
40°-50°	969.5	19.3
50°-60°	894.6	17.8
60°-70°	572.8	11.4
70°-80°	258.0	5.1
80°-90°	42.6	0.8
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°	1377.7	27.4
0°-40°	2288.5	45.5
0°-60°	4152.6	82.6
0°-90°	5026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5026.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1735	1738	1733	1738	1741	165
15°	1686	1689	1684	1692	1692	476
25°	1585	1589	1592	1602	1601	731
35°	1427	1442	1459	1474	1470	893
45°	1212	1237	1271	1279	1274	935
55°	952	987	1018	1034	1029	852
65°	653	685	714	394	386	645
75°	325	353	208	214	154	345
85°	47	35	32	34	31	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1741.6	1741.6	1741.6	1741.6	1741.6
2.5°	1738.9	1742.3	1737.5	1742.3	1745.8
5°	1734.7	1737.5	1733.3	1738.2	1741.0
7.5°	1727.8	1730.6	1725.7	1730.6	1733.3
10°	1718.1	1719.5	1716.0	1720.8	1721.5
12.5°	1704.2	1705.6	1702.8	1707.7	1708.4
15°	1686.2	1688.9	1684.1	1692.4	1691.7
17.5°	1665.4	1668.1	1666.0	1672.3	1673.0
20°	1641.1	1643.8	1644.5	1652.2	1652.9
22.5°	1614.0	1618.2	1618.9	1629.3	1628.6
25°	1584.9	1589.1	1591.8	1602.2	1600.8
27.5°	1553.0	1558.5	1562.7	1573.1	1573.1
30°	1516.9	1524.5	1529.4	1543.3	1542.6
32.5°	1473.9	1488.5	1494.0	1511.4	1510.0
35°	1427.4	1442.0	1458.7	1473.9	1470.4
37.5°	1381.7	1396.2	1419.1	1428.1	1424.0
40°	1324.8	1349.1	1378.2	1381.7	1375.4
42.5°	1270.7	1290.1	1329.6	1331.7	1326.2
45°	1212.4	1237.4	1270.7	1279.0	1273.5
47.5°	1152.1	1173.6	1212.4	1222.8	1218.7
50°	1093.8	1113.2	1151.4	1161.8	1156.2
52.5°	1022.4	1051.5	1084.1	1100.8	1094.5
55°	952.3	987.0	1017.5	1034.2	1029.3
57.5°	882.3	920.4	943.3	966.2	954.4
60°	808.7	846.2	871.2	860.8	640.9
62.5°	732.4	768.5	789.3	529.2	429.3
65°	653.4	684.6	713.7	394.0	385.6
67.5°	572.9	604.1	475.1	350.3	342.6
70°	490.4	519.5	294.8	305.2	301.0
72.5°	407.1	434.9	253.2	265.0	259.4
75°	324.6	353.0	208.1	213.6	154.0
77.5°	247.6	243.5	167.9	117.9	52.7
80°	168.5	112.4	93.6	49.2	48.6
82.5°	104.7	75.6	39.5	43.7	43.0
85°	47.2	35.4	31.9	34.0	31.2
87.5°	16.6	17.3	19.4	18.0	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)