

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-FL-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 (P34181)  
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-FL-UNV-L840-CD1-U  
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

**Summary**

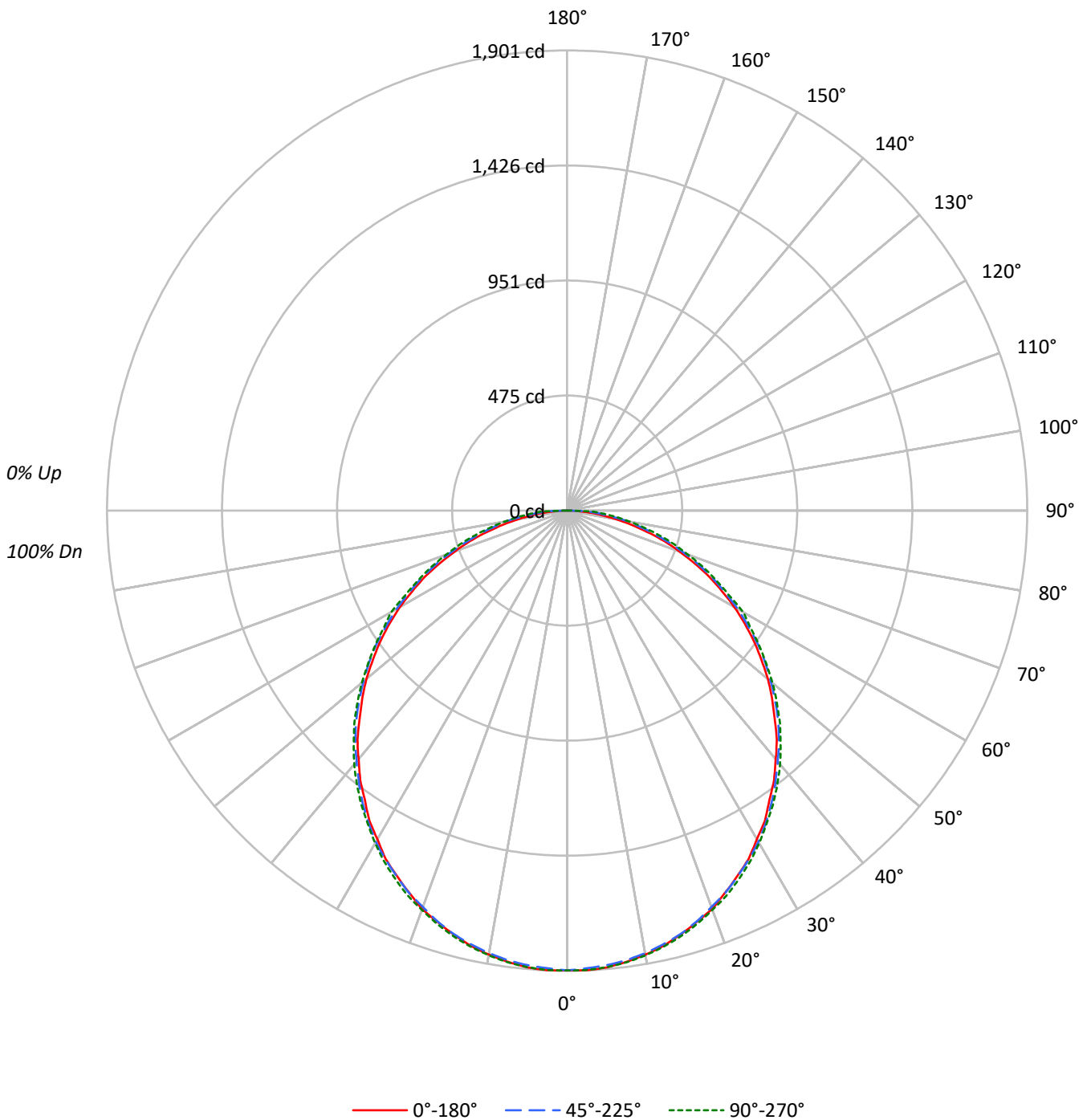
Lumens per Lamp: N/A  
Luminaire Lumens: 5379.0 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 50.4  
Input Voltage (V):  
Input Current (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	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					100			
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

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

	0°	45°	90°
0°	5577	5577	5577
5°	5569	5509	5525
10°	5528	5444	5456
15°	5473	5368	5374
20°	5423	5263	5275
25°	5331	5171	5177
30°	5238	5078	5061
35°	5133	4950	4937
40°	5031	4804	4806
45°	4909	4673	4653
50°	4800	4505	4477
55°	4660	4334	4284
60°	4490	4107	4152
65°	4277	3847	3812
70°	3959	3510	3506
75°	3568	3134	3165
80°	3057	2785	2737
85°	2423	2063	2279



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.5	3.3
10°-20°	511.8	9.5
20°-30°	770.1	14.3
30°-40°	921.4	17.1
40°-50°	949.5	17.7
50°-60°	856.0	15.9
60°-70°	657.5	12.2
70°-80°	395.8	7.4
80°-90°	137.3	2.6
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°	1461.5	27.2
0°-40°	2382.9	44.3
0°-60°	4188.4	77.9
0°-90°	5379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5379.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1894	1892	1885	1892	1893	180
15°	1813	1815	1811	1819	1820	512
25°	1665	1666	1667	1677	1680	768
35°	1457	1472	1473	1482	1483	914
45°	1212	1223	1232	1242	1243	937
55°	943	951	962	967	967	842
65°	649	651	666	674	677	639
75°	344	354	374	388	393	365
85°	92	107	128	145	152	104
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1899.7	1899.7	1899.7	1899.7	1899.7
2.5°	1900.7	1899.7	1891.9	1897.8	1899.7
5°	1893.9	1891.9	1885.1	1891.9	1892.9
7.5°	1880.2	1879.2	1873.4	1880.2	1882.2
10°	1862.7	1862.7	1856.8	1863.7	1865.6
12.5°	1841.3	1840.3	1835.4	1843.2	1845.2
15°	1813.0	1815.0	1811.1	1818.8	1819.8
17.5°	1781.8	1782.8	1779.9	1786.7	1789.6
20°	1751.6	1746.8	1742.9	1754.5	1755.5
22.5°	1707.8	1709.7	1708.8	1719.5	1721.4
25°	1664.9	1665.9	1666.9	1676.6	1679.5
27.5°	1623.0	1622.1	1625.0	1632.8	1635.7
30°	1567.5	1575.3	1580.2	1586.0	1587.0
32.5°	1519.8	1522.7	1528.5	1532.4	1533.4
35°	1457.4	1472.0	1473.0	1481.8	1482.7
37.5°	1403.8	1408.7	1413.6	1424.3	1426.2
40°	1340.5	1347.3	1353.2	1362.9	1368.8
42.5°	1282.1	1289.9	1295.7	1304.5	1305.4
45°	1211.9	1222.6	1232.4	1242.1	1243.1
47.5°	1147.6	1158.3	1166.1	1173.9	1174.9
50°	1082.3	1091.1	1097.9	1107.7	1107.7
52.5°	1010.3	1021.0	1031.7	1035.6	1035.6
55°	943.0	950.8	961.5	967.4	967.4
57.5°	870.0	873.9	885.6	896.3	896.3
60°	797.9	802.7	814.4	822.2	840.7
62.5°	720.9	728.7	736.5	761.8	751.1
65°	648.8	650.8	666.4	674.2	677.1
67.5°	568.9	575.8	591.3	600.1	606.0
70°	492.9	501.7	515.4	526.1	530.9
72.5°	420.9	424.8	442.3	456.9	463.7
75°	343.9	353.6	374.1	387.7	392.6
77.5°	270.8	286.4	305.9	353.6	326.4
80°	206.5	218.2	253.3	255.2	262.1
82.5°	144.2	157.8	181.2	196.8	204.6
85°	92.5	107.2	127.6	145.2	152.0
87.5°	42.9	58.5	84.8	104.2	110.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)