

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-FLWG-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 (P34182)  
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-FLWG-UNV-L835-CD1-U  
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

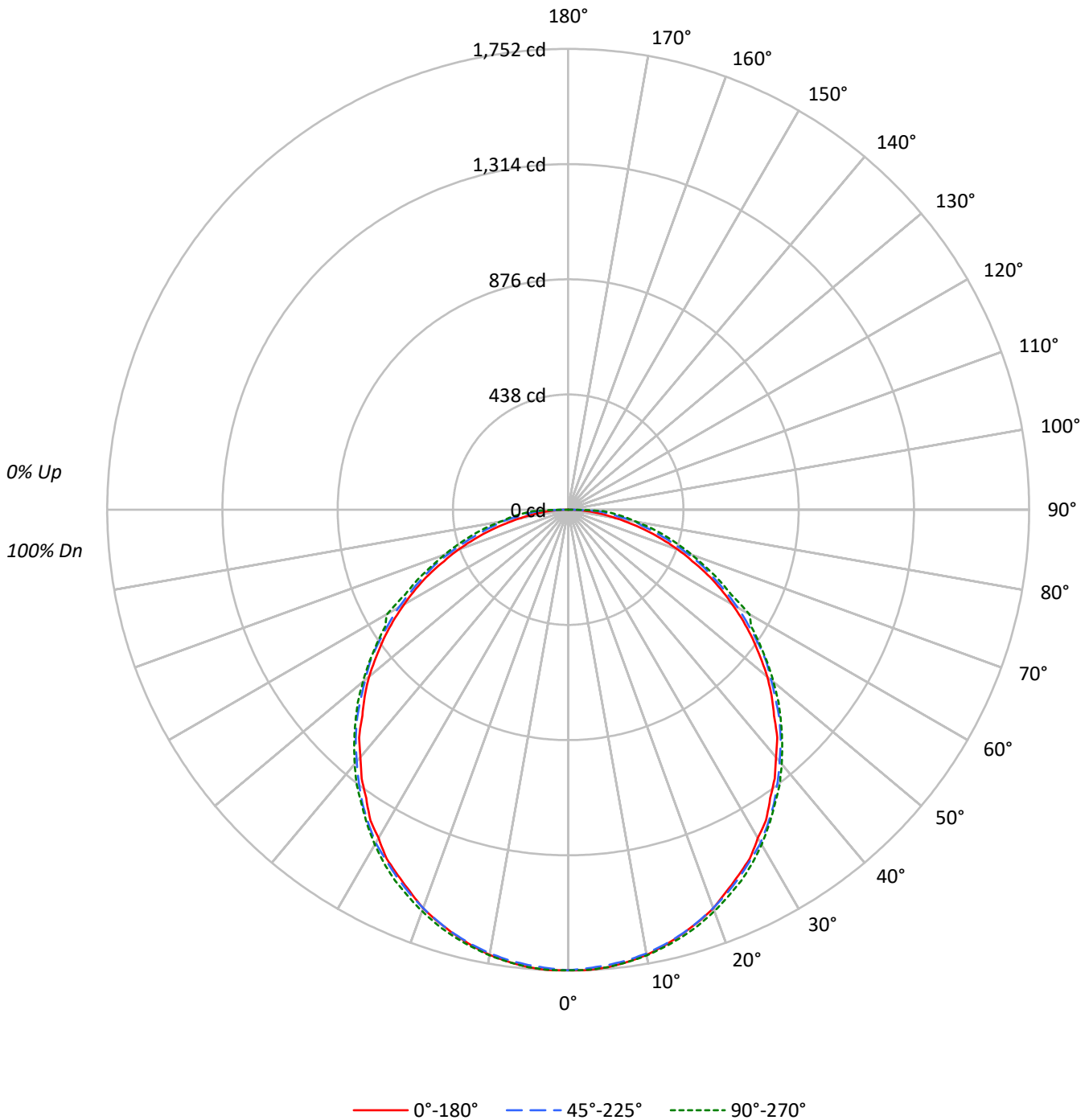
Lumens per Lamp: N/A  
Luminaire Lumens: 4980.0 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

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	105	101	97	93	97	93	90	93	90	87	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
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	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	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°	5141	5141	5141
5°	5132	5079	5095
10°	5101	5022	5032
15°	5044	4950	4962
20°	4993	4867	4880
25°	4906	4780	4797
30°	4817	4701	4689
35°	4714	4582	4555
40°	4611	4439	4431
45°	4481	4311	4281
50°	4381	4132	4116
55°	4226	3962	3930
60°	4054	3748	3930
65°	3855	3507	3561
70°	3568	3253	3293
75°	3211	2937	3057
80°	2715	2763	2724
85°	2203	2347	2592



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.6	3.3
10°-20°	472.3	9.5
20°-30°	711.2	14.3
30°-40°	850.6	17.1
40°-50°	873.5	17.5
50°-60°	784.5	15.8
60°-70°	603.6	12.1
70°-80°	372.0	7.5
80°-90°	146.7	2.9
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°	1349.1	27.1
0°-40°	2199.7	44.2
0°-60°	3857.6	77.5
0°-90°	4980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4980.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1751	1751	1751	1751	1751	
5°	1746	1744	1738	1744	1746	166
15°	1671	1674	1670	1677	1680	472
25°	1532	1534	1541	1552	1556	707
35°	1338	1358	1363	1368	1368	839
45°	1106	1124	1137	1142	1144	857
55°	855	866	879	888	888	764
65°	585	590	608	629	632	577
75°	310	326	351	374	379	327
85°	84	112	145	166	173	96
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1752.1	1751.2	1744.5	1749.3	1751.2
5°	1745.5	1744.5	1737.8	1744.5	1745.5
7.5°	1734.0	1734.0	1727.3	1734.0	1734.9
10°	1718.7	1718.7	1713.0	1718.7	1720.6
12.5°	1696.7	1698.6	1692.9	1699.6	1701.5
15°	1670.9	1673.8	1670.0	1676.7	1680.5
17.5°	1643.2	1644.2	1642.3	1650.9	1654.7
20°	1612.7	1611.7	1611.7	1623.2	1624.1
22.5°	1571.6	1576.4	1577.3	1589.7	1590.7
25°	1532.4	1534.3	1541.0	1552.5	1556.3
27.5°	1495.1	1494.2	1500.9	1511.4	1515.2
30°	1441.6	1451.2	1462.7	1466.5	1470.3
32.5°	1399.6	1402.5	1413.9	1417.8	1420.6
35°	1338.5	1357.6	1363.3	1368.1	1368.1
37.5°	1288.8	1299.3	1306.9	1315.5	1319.4
40°	1228.6	1242.0	1250.6	1259.2	1262.0
42.5°	1176.1	1184.7	1195.2	1201.9	1203.8
45°	1106.3	1123.5	1136.9	1141.7	1143.6
47.5°	1049.0	1068.1	1070.0	1081.5	1084.3
50°	987.8	1002.2	1007.0	1020.3	1018.4
52.5°	920.0	937.2	948.7	952.5	953.5
55°	855.1	866.5	878.9	888.5	887.5
57.5°	789.1	798.7	809.2	823.5	824.5
60°	720.3	731.8	743.3	757.6	795.8
62.5°	653.5	660.2	673.5	701.2	698.4
65°	584.7	590.4	607.6	628.6	632.5
67.5°	510.2	521.6	547.4	560.8	562.7
70°	444.2	454.8	477.7	494.9	498.7
72.5°	374.5	386.9	411.8	433.7	439.5
75°	309.5	325.8	350.6	373.5	379.3
77.5°	242.7	263.7	293.3	348.7	322.0
80°	183.4	207.3	251.3	257.9	260.8
82.5°	130.9	156.7	188.2	211.1	218.8
85°	84.1	111.8	145.2	166.2	172.9
87.5°	46.8	73.6	108.9	129.9	135.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)