

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-TWBWG-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 (P34176)  
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-TWBWG-UNV-L835-CD1-U  
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD  
DISTRIBUTION

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

**Summary**

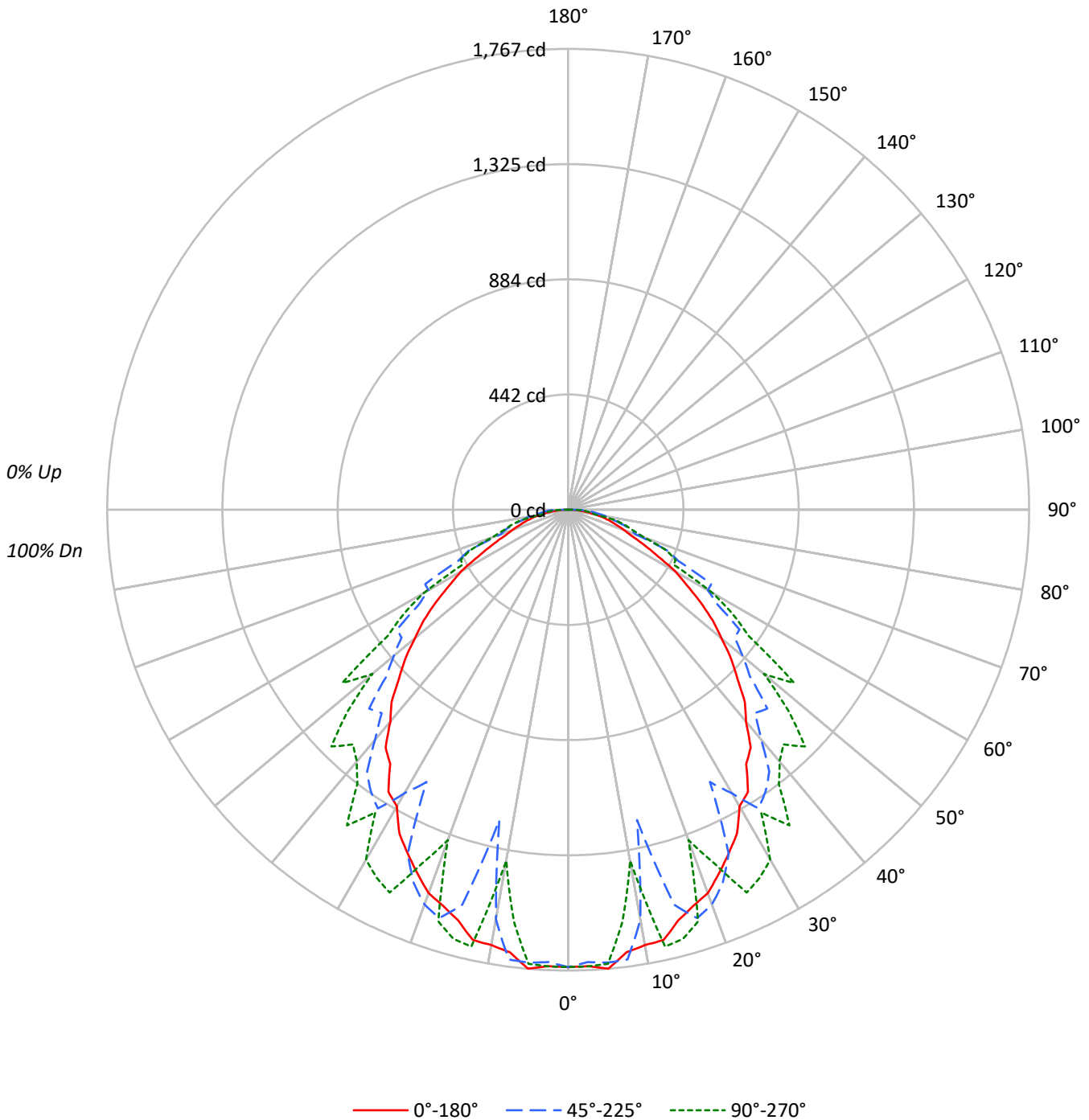
Lumens per Lamp: N/A  
Luminaire Lumens: 4261.0 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	5148	5148	5148
5°	5195	5096	5101
10°	5031	4679	3997
15°	4921	4647	5028
20°	4842	4865	4052
25°	4657	4514	4992
30°	4388	4036	4940
35°	4191	4433	4920
40°	3979	4086	4424
45°	3715	4092	4806
50°	3402	3580	3960
55°	3054	3611	3734
60°	2667	3117	3156
65°	2129	2685	2561
70°	1818	1862	2034
75°	1708	1778	1809
80°	1540	1660	1073
85°	1354	1473	1019



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.9	3.8
10°-20°	448.7	10.5
20°-30°	648.7	15.2
30°-40°	812.5	19.1
40°-50°	790.9	18.6
50°-60°	677.0	15.9
60°-70°	420.0	9.9
70°-80°	218.5	5.1
80°-90°	84.9	2.0
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°	1257.4	29.5
0°-40°	2069.8	48.6
0°-60°	3537.6	83.0
0°-90°	4261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4261.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1754	1754	1754	1754	1754	
5°	1767	1761	1744	1737	1748	165
15°	1630	1636	1568	1712	1703	461
25°	1454	1206	1455	1496	1620	668
35°	1190	1240	1319	1308	1478	752
45°	917	824	1079	1104	1284	710
55°	618	677	801	956	843	553
65°	323	362	465	394	455	328
75°	165	191	212	228	224	174
85°	52	69	91	105	68	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1753.7	1753.7	1753.7	1753.7	1753.7
2.5°	1751.6	1744.2	1736.0	1750.3	1753.0
5°	1766.6	1761.2	1743.5	1736.7	1747.6
7.5°	1711.5	1723.1	1739.4	1651.0	1593.9
10°	1695.2	1689.1	1595.9	1228.7	1366.8
12.5°	1689.8	1682.3	1218.5	1708.1	1716.3
15°	1629.9	1636.0	1568.0	1711.5	1702.7
17.5°	1593.2	1508.9	1642.2	1670.7	1655.1
20°	1564.0	1315.1	1610.9	1534.7	1348.4
22.5°	1510.2	1121.3	1548.3	1231.5	1470.8
25°	1454.5	1205.6	1455.2	1496.0	1619.7
27.5°	1400.8	1366.1	1177.1	1561.2	1590.5
30°	1313.1	1354.5	1255.9	1528.6	1549.0
32.5°	1282.5	1293.3	1357.9	1443.6	1375.6
35°	1190.0	1240.3	1319.2	1308.3	1477.6
37.5°	1149.2	1163.5	1266.1	1377.7	1327.3
40°	1060.1	1081.9	1151.2	1217.2	1260.0
42.5°	1002.3	929.5	1058.1	1179.8	1220.6
45°	917.3	823.5	1079.1	1103.6	1283.8
47.5°	847.9	818.0	944.5	1148.5	1148.5
50°	767.0	806.5	872.4	1026.1	979.9
52.5°	697.7	751.4	805.1	892.1	1091.4
55°	618.1	676.6	801.0	956.1	843.2
57.5°	539.9	589.5	680.0	732.3	752.1
60°	474.0	522.2	618.1	658.2	639.2
62.5°	389.0	450.2	618.1	518.8	454.9
65°	323.0	362.4	465.1	393.7	454.9
67.5°	265.2	306.0	413.4	380.1	405.3
70°	226.4	255.7	273.4	340.0	308.0
72.5°	193.8	214.9	250.2	257.0	255.7
75°	164.6	191.1	212.2	227.8	224.4
77.5°	136.7	174.1	174.8	209.4	182.2
80°	104.0	119.0	151.0	136.7	102.7
82.5°	76.2	93.2	114.9	118.3	90.4
85°	51.7	68.7	91.1	104.7	68.0
87.5°	23.8	46.9	74.1	93.8	61.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)