

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-FLWG-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 (P34182)  
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-FLWG-UNV-L840-CD1-U  
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

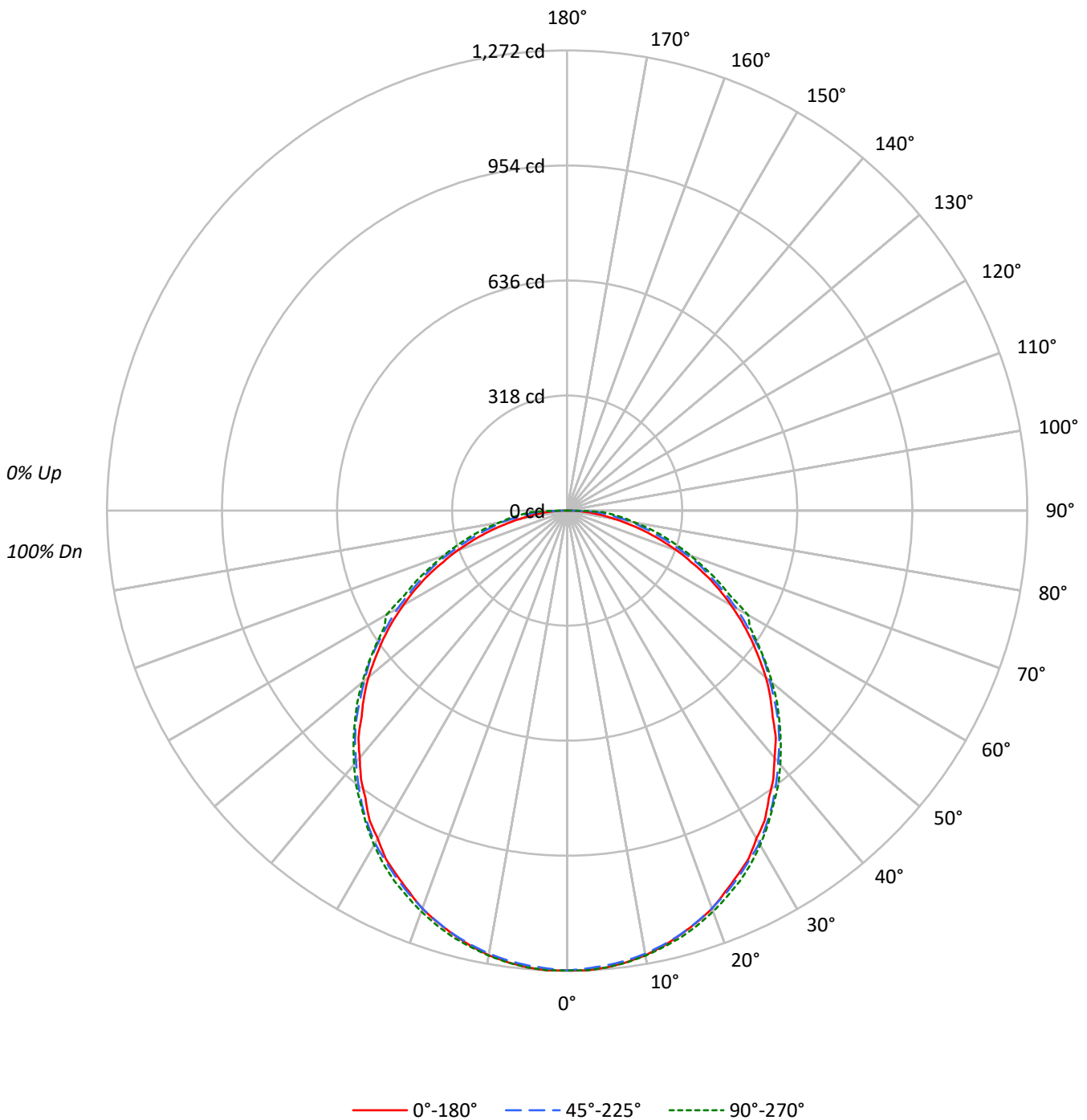
Lumens per Lamp: N/A  
Luminaire Lumens: 3616.0 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 33.5  
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°	3733	3733	3733
5°	3727	3688	3699
10°	3704	3647	3654
15°	3663	3594	3603
20°	3625	3534	3543
25°	3563	3471	3483
30°	3498	3413	3404
35°	3423	3327	3307
40°	3348	3223	3217
45°	3254	3130	3108
50°	3181	3000	2989
55°	3068	2877	2854
60°	2943	2722	2853
65°	2799	2547	2585
70°	2591	2361	2391
75°	2332	2133	2220
80°	1972	2005	1978
85°	1598	1704	1883



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.2	3.3
10°-20°	342.9	9.5
20°-30°	516.4	14.3
30°-40°	617.6	17.1
40°-50°	634.3	17.5
50°-60°	569.6	15.8
60°-70°	438.3	12.1
70°-80°	270.1	7.5
80°-90°	106.5	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°	979.6	27.1
0°-40°	1597.2	44.2
0°-60°	2801.1	77.5
0°-90°	3616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3616.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1267	1267	1262	1267	1267	120
15°	1213	1215	1213	1217	1220	342
25°	1113	1114	1119	1127	1130	513
35°	972	986	990	993	993	610
45°	803	816	826	829	830	622
55°	621	629	638	645	644	555
65°	424	429	441	456	459	419
75°	225	237	255	271	275	238
85°	61	81	105	121	126	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1271.5	1271.5	1271.5	1271.5	1271.5
2.5°	1272.2	1271.5	1266.7	1270.2	1271.5
5°	1267.4	1266.7	1261.8	1266.7	1267.4
7.5°	1259.1	1259.1	1254.2	1259.1	1259.8
10°	1248.0	1248.0	1243.8	1248.0	1249.3
12.5°	1232.0	1233.4	1229.2	1234.1	1235.5
15°	1213.3	1215.4	1212.6	1217.4	1220.2
17.5°	1193.2	1193.9	1192.5	1198.7	1201.5
20°	1171.0	1170.3	1170.3	1178.6	1179.3
22.5°	1141.1	1144.6	1145.3	1154.3	1155.0
25°	1112.7	1114.1	1118.9	1127.3	1130.0
27.5°	1085.6	1084.9	1089.8	1097.4	1100.2
30°	1046.8	1053.7	1062.0	1064.8	1067.6
32.5°	1016.3	1018.3	1026.7	1029.4	1031.5
35°	971.9	985.7	989.9	993.4	993.4
37.5°	935.8	943.4	949.0	955.2	958.0
40°	892.1	901.8	908.0	914.3	916.4
42.5°	853.9	860.2	867.8	872.7	874.1
45°	803.3	815.8	825.5	829.0	830.4
47.5°	761.7	775.6	776.9	785.3	787.3
50°	717.3	727.7	731.2	740.9	739.5
52.5°	668.0	680.5	688.8	691.6	692.3
55°	620.9	629.2	638.2	645.1	644.4
57.5°	573.0	579.9	587.6	598.0	598.7
60°	523.0	531.4	539.7	550.1	577.8
62.5°	474.5	479.3	489.1	509.2	507.1
65°	424.5	428.7	441.2	456.5	459.2
67.5°	370.4	378.8	397.5	407.2	408.6
70°	322.6	330.2	346.8	359.3	362.1
72.5°	271.9	280.9	299.0	314.9	319.1
75°	224.8	236.6	254.6	271.2	275.4
77.5°	176.2	191.5	213.0	253.2	233.8
80°	133.2	150.5	182.4	187.3	189.4
82.5°	95.0	113.8	136.7	153.3	158.9
85°	61.0	81.2	105.4	120.7	125.6
87.5°	34.0	53.4	79.1	94.3	98.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)