

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-L850-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-L850-CD1-U  
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

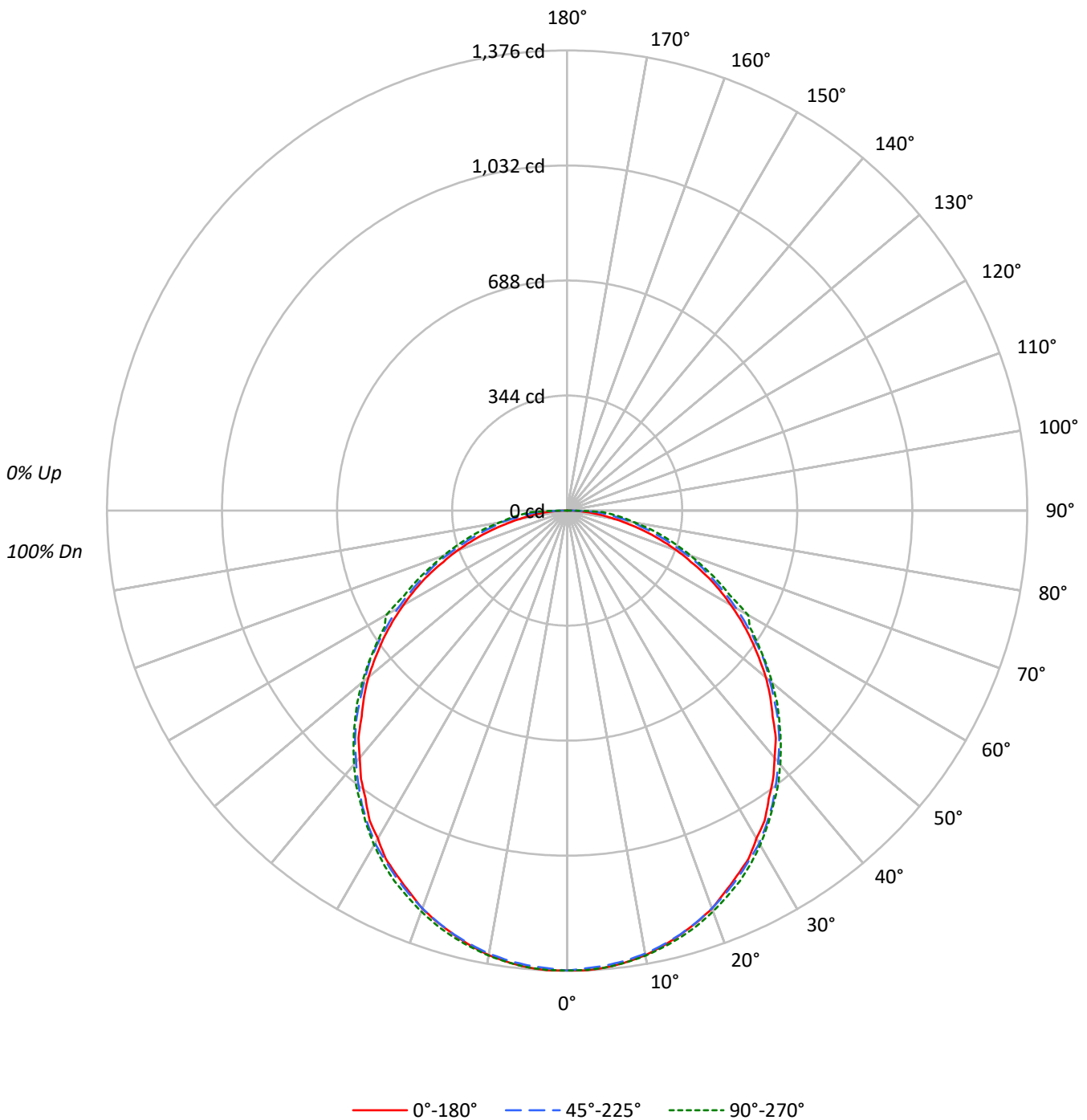
Lumens per Lamp: N/A  
Luminaire Lumens: 3911.0 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	4037	4037	4037
5°	4031	3989	4001
10°	4006	3944	3952
15°	3962	3887	3897
20°	3921	3822	3833
25°	3853	3754	3767
30°	3783	3692	3682
35°	3702	3598	3577
40°	3622	3486	3480
45°	3519	3386	3362
50°	3441	3245	3232
55°	3318	3112	3086
60°	3184	2944	3086
65°	3027	2755	2796
70°	2802	2554	2587
75°	2522	2307	2401
80°	2134	2169	2139
85°	1729	1843	2036



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.0	3.3
10°-20°	370.9	9.5
20°-30°	558.6	14.3
30°-40°	668.0	17.1
40°-50°	686.0	17.5
50°-60°	616.1	15.8
60°-70°	474.0	12.1
70°-80°	292.2	7.5
80°-90°	115.2	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°	1059.5	27.1
0°-40°	1727.5	44.2
0°-60°	3029.5	77.5
0°-90°	3911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3911.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1371	1370	1365	1370	1371	130
15°	1312	1314	1312	1317	1320	370
25°	1204	1205	1210	1219	1222	555
35°	1051	1066	1071	1074	1074	659
45°	869	882	893	897	898	673
55°	672	680	690	698	697	600
65°	459	464	477	494	497	453
75°	243	256	275	293	298	257
85°	66	88	114	131	136	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1375.3	1375.3	1375.3	1375.3	1375.3
2.5°	1376.0	1375.3	1370.0	1373.8	1375.3
5°	1370.8	1370.0	1364.8	1370.0	1370.8
7.5°	1361.8	1361.8	1356.5	1361.8	1362.5
10°	1349.8	1349.8	1345.3	1349.8	1351.3
12.5°	1332.5	1334.0	1329.5	1334.8	1336.3
15°	1312.3	1314.5	1311.5	1316.8	1319.8
17.5°	1290.5	1291.2	1289.7	1296.5	1299.5
20°	1266.5	1265.7	1265.7	1274.7	1275.5
22.5°	1234.2	1238.0	1238.7	1248.5	1249.2
25°	1203.5	1205.0	1210.2	1219.2	1222.2
27.5°	1174.2	1173.5	1178.7	1187.0	1190.0
30°	1132.2	1139.7	1148.7	1151.7	1154.7
32.5°	1099.2	1101.4	1110.4	1113.4	1115.7
35°	1051.2	1066.2	1070.7	1074.4	1074.4
37.5°	1012.1	1020.4	1026.4	1033.1	1036.1
40°	964.9	975.4	982.1	988.9	991.1
42.5°	923.6	930.4	938.6	943.9	945.4
45°	868.8	882.3	892.8	896.6	898.1
47.5°	823.8	838.8	840.3	849.3	851.6
50°	775.8	787.1	790.8	801.3	799.8
52.5°	722.5	736.0	745.0	748.0	748.8
55°	671.5	680.5	690.3	697.8	697.0
57.5°	619.7	627.2	635.5	646.7	647.5
60°	565.7	574.7	583.7	595.0	625.0
62.5°	513.2	518.4	529.0	550.7	548.5
65°	459.2	463.7	477.2	493.7	496.7
67.5°	400.7	409.7	429.9	440.4	441.9
70°	348.9	357.1	375.1	388.6	391.7
72.5°	294.1	303.9	323.4	340.6	345.1
75°	243.1	255.8	275.4	293.4	297.9
77.5°	190.6	207.1	230.3	273.9	252.8
80°	144.1	162.8	197.3	202.6	204.8
82.5°	102.8	123.0	147.8	165.8	171.8
85°	66.0	87.8	114.0	130.6	135.8
87.5°	36.8	57.8	85.5	102.0	106.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)