

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-FL-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 (P34181)  
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-FL-UNV-L850-CD1-U  
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

**Summary**

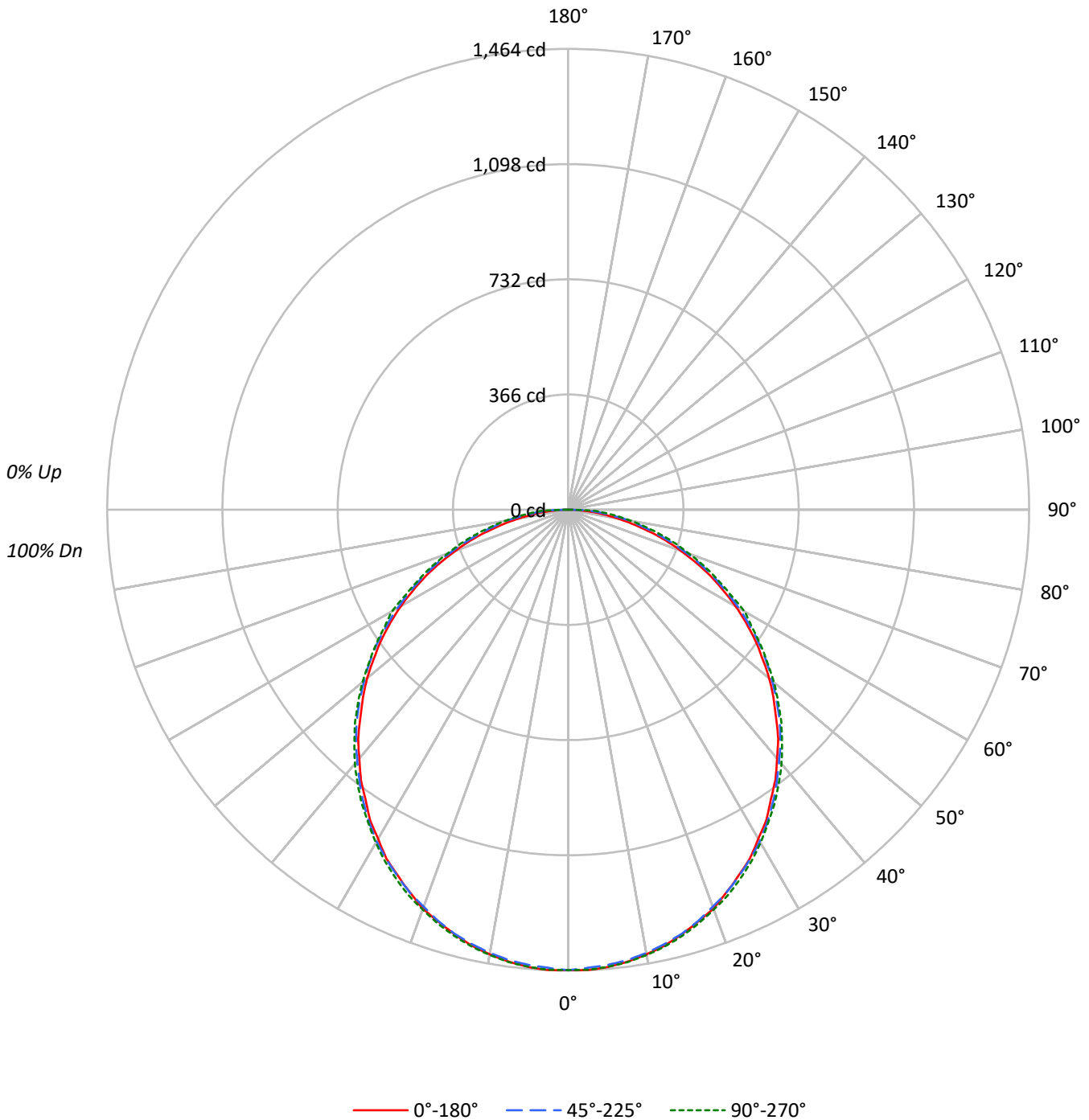
Lumens per Lamp: N/A  
Luminaire Lumens: 4142.0 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 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	106	101	97	93	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74		81	77	73		78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	49	45	43
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	49	41	36		47	40	35		46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29		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°	4294	4294	4294
5°	4288	4242	4255
10°	4257	4192	4202
15°	4215	4133	4138
20°	4176	4053	4062
25°	4105	3981	3986
30°	4033	3911	3897
35°	3953	3812	3802
40°	3874	3699	3700
45°	3780	3599	3583
50°	3696	3469	3447
55°	3589	3337	3299
60°	3458	3162	3197
65°	3294	2962	2935
70°	3049	2702	2700
75°	2747	2414	2437
80°	2354	2144	2108
85°	1868	1589	1754



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.3	3.3
10°-20°	394.1	9.5
20°-30°	593.0	14.3
30°-40°	709.5	17.1
40°-50°	731.1	17.7
50°-60°	659.2	15.9
60°-70°	506.3	12.2
70°-80°	304.8	7.4
80°-90°	105.7	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°	1125.4	27.2
0°-40°	1834.9	44.3
0°-60°	3225.2	77.9
0°-90°	4142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4142.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1458	1457	1452	1457	1458	138
15°	1396	1398	1395	1401	1401	394
25°	1282	1283	1284	1291	1293	591
35°	1122	1134	1134	1141	1142	703
45°	933	942	949	956	957	721
55°	726	732	740	745	745	648
65°	500	501	513	519	521	492
75°	265	272	288	299	302	281
85°	71	82	98	112	117	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1462.8	1462.8	1462.8	1462.8	1462.8
2.5°	1463.6	1462.8	1456.8	1461.3	1462.8
5°	1458.3	1456.8	1451.6	1456.8	1457.6
7.5°	1447.8	1447.1	1442.6	1447.8	1449.3
10°	1434.3	1434.3	1429.8	1435.1	1436.6
12.5°	1417.8	1417.1	1413.3	1419.3	1420.8
15°	1396.1	1397.6	1394.6	1400.6	1401.3
17.5°	1372.1	1372.8	1370.6	1375.8	1378.1
20°	1348.8	1345.1	1342.1	1351.1	1351.8
22.5°	1315.1	1316.6	1315.8	1324.1	1325.6
25°	1282.0	1282.8	1283.5	1291.0	1293.3
27.5°	1249.8	1249.0	1251.3	1257.3	1259.5
30°	1207.0	1213.0	1216.8	1221.3	1222.0
32.5°	1170.3	1172.5	1177.0	1180.0	1180.8
35°	1122.3	1133.5	1134.3	1141.0	1141.8
37.5°	1081.0	1084.7	1088.5	1096.8	1098.3
40°	1032.2	1037.5	1042.0	1049.5	1054.0
42.5°	987.2	993.2	997.7	1004.5	1005.2
45°	933.2	941.5	949.0	956.5	957.2
47.5°	883.7	892.0	898.0	904.0	904.7
50°	833.4	840.2	845.4	852.9	852.9
52.5°	777.9	786.2	794.4	797.4	797.4
55°	726.2	732.2	740.4	744.9	744.9
57.5°	669.9	672.9	681.9	690.2	690.2
60°	614.4	618.1	627.1	633.1	647.4
62.5°	555.1	561.1	567.1	586.6	578.4
65°	499.6	501.1	513.1	519.1	521.4
67.5°	438.1	443.4	455.4	462.1	466.6
70°	379.6	386.3	396.8	405.1	408.8
72.5°	324.1	327.1	340.6	351.8	357.1
75°	264.8	272.3	288.1	298.6	302.3
77.5°	208.5	220.6	235.6	272.3	251.3
80°	159.0	168.0	195.0	196.5	201.8
82.5°	111.0	121.5	139.5	151.5	157.5
85°	71.3	82.5	98.3	111.8	117.0
87.5°	33.0	45.0	65.3	80.3	84.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)