

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: P393322

Luminaire Tested: **22EN-LD2-34-UNV-L83050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393322  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22EN-LD2-34-UNV-L83050-W2A-1-U (2700K)  
Description: 2X2 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3308.5 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

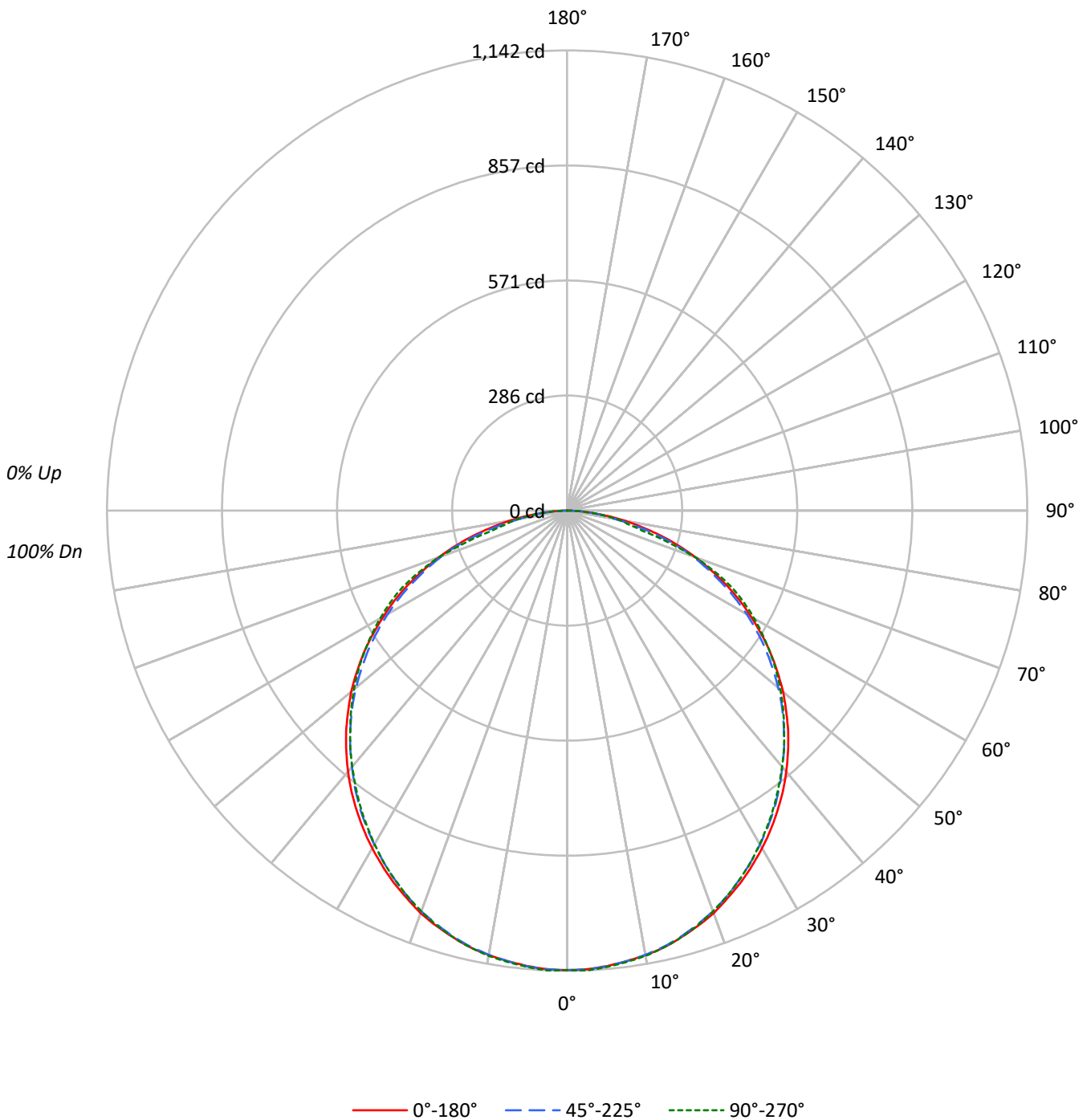
Input Watts (W): 25.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P393322

CATALOG NUMBER: 22EN-LD2-34-UNV-L83050-W2A-1-U (2700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P393322

CATALOG NUMBER: 22EN-LD2-34-UNV-L83050-W2A-1-U (2700K)

**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	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	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	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

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

	0°	45°	90°
0°	3069	3069	3069
5°	3065	3068	3070
10°	3061	3058	3066
15°	3053	3048	3053
20°	3045	3031	3031
25°	3025	3002	3002
30°	3007	2974	2971
35°	2989	2951	2941
40°	2972	2918	2915
45°	2952	2893	2897
50°	2928	2864	2892
55°	2892	2824	2888
60°	2835	2773	2887
65°	2770	2691	2875
70°	2665	2603	2665
75°	2497	2357	2016
80°	2242	1884	2019
85°	1667	1698	1667



TEST NUMBER: P393322

CATALOG NUMBER: 22EN-LD2-34-UNV-L83050-W2A-1-U (2700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.9	3.3
10°-20°	308.9	9.3
20°-30°	466.8	14.1
30°-40°	563.0	17.0
40°-50°	589.7	17.8
50°-60°	543.7	16.4
60°-70°	426.8	12.9
70°-80°	238.1	7.2
80°-90°	63.7	1.9
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°	883.6	26.7
0°-40°	1446.6	43.7
0°-60°	2580.0	78.0
0°-90°	3308.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3308.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1135	1134	1136	1136	1137	108
15°	1096	1094	1094	1094	1096	309
25°	1019	1015	1011	1010	1011	470
35°	910	906	898	893	895	569
45°	776	770	760	757	761	598
55°	616	610	602	606	616	550
65°	435	428	423	437	452	430
75°	240	235	227	204	194	254
85°	54	52	55	53	54	67
90°	0	0	0	0	0	



TEST NUMBER: P393322

CATALOG NUMBER: 22EN-LD2-34-UNV-L83050-W2A-1-U (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1140.4	1140.4	1140.4	1140.4	1140.4
2.5°	1139.5	1138.5	1139.5	1140.4	1142.3
5°	1134.6	1133.7	1135.6	1135.6	1136.6
7.5°	1127.9	1126.9	1127.9	1128.8	1129.8
10°	1120.2	1119.2	1119.2	1120.2	1122.1
12.5°	1110.5	1108.6	1108.6	1108.6	1110.5
15°	1096.0	1094.1	1094.1	1094.1	1096.0
17.5°	1080.6	1078.7	1076.7	1076.7	1078.7
20°	1063.2	1060.3	1058.4	1057.4	1058.4
22.5°	1041.0	1039.1	1036.2	1034.3	1036.2
25°	1018.9	1015.0	1011.1	1010.2	1011.1
27.5°	993.8	989.9	985.1	983.2	985.1
30°	967.7	962.9	957.1	954.2	956.1
32.5°	939.7	935.9	928.2	925.3	926.2
35°	909.8	906.0	898.2	893.4	895.4
37.5°	879.0	874.1	865.4	860.6	862.5
40°	846.1	840.4	830.7	826.9	829.7
42.5°	811.4	806.6	796.9	793.1	796.9
45°	775.7	769.9	760.3	757.4	761.2
47.5°	737.1	733.3	723.6	722.7	726.5
50°	699.5	692.7	684.1	685.0	690.8
52.5°	658.0	652.2	642.6	646.4	654.1
55°	616.5	609.8	602.0	605.9	615.6
57.5°	572.1	567.3	558.6	564.4	576.0
60°	526.8	522.9	515.2	524.9	536.4
62.5°	482.4	475.7	468.9	481.4	495.0
65°	435.1	428.4	422.6	437.1	451.5
67.5°	385.9	381.1	376.3	387.9	397.5
70°	338.7	333.8	330.9	332.9	338.7
72.5°	290.4	285.6	282.7	272.1	265.3
75°	240.2	235.4	226.7	203.6	193.9
77.5°	191.0	188.1	170.8	150.5	153.4
80°	144.7	139.9	121.6	125.4	130.3
82.5°	98.4	93.6	91.7	88.8	89.7
85°	54.0	52.1	55.0	53.1	54.0
87.5°	21.2	22.2	24.1	23.2	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)