

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: P393345

Luminaire Tested: **22EN-LD2-34-UNV-L93050-W2A-1-U (6500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393345  
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-L93050-W2A-1-U (6500K)  
Description: 2X2 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3025.0 lumens  
Efficiency: N/A  
Efficacy: 120.5 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

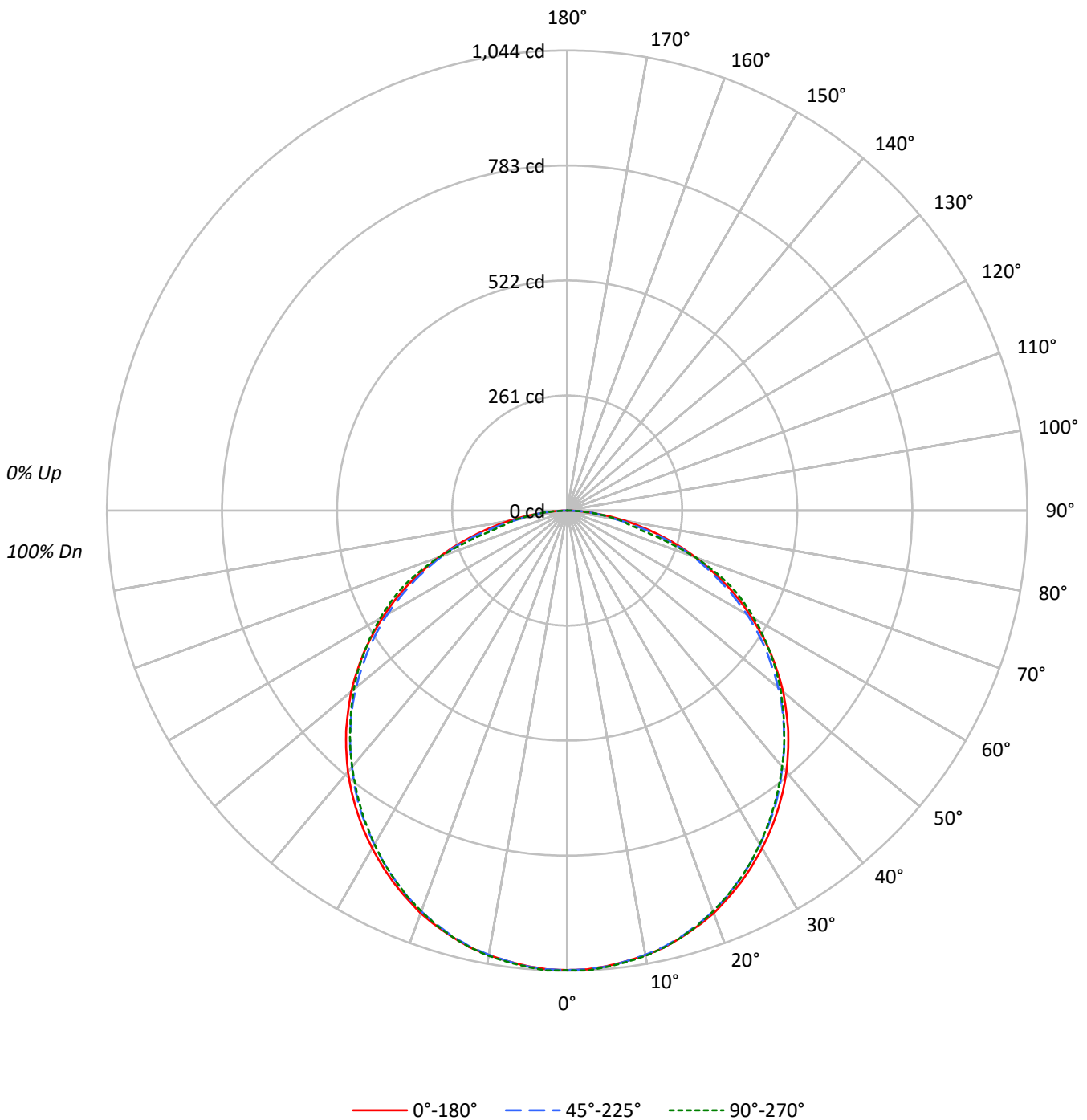
Input Watts (W): 25.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P393345

CATALOG NUMBER: 22EN-LD2-34-UNV-L93050-W2A-1-U (6500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P393345

CATALOG NUMBER: 22EN-LD2-34-UNV-L93050-W2A-1-U (6500K)

**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°	2806	2806	2806
5°	2802	2805	2807
10°	2799	2796	2803
15°	2792	2787	2792
20°	2784	2771	2771
25°	2766	2745	2745
30°	2749	2719	2716
35°	2733	2698	2689
40°	2718	2668	2665
45°	2699	2645	2649
50°	2678	2618	2644
55°	2645	2583	2640
60°	2592	2535	2640
65°	2533	2460	2628
70°	2436	2381	2436
75°	2284	2155	1843
80°	2050	1723	1846
85°	1525	1553	1525



TEST NUMBER: P393345

CATALOG NUMBER: 22EN-LD2-34-UNV-L93050-W2A-1-U (6500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.6	3.3
10°-20°	282.4	9.3
20°-30°	426.8	14.1
30°-40°	514.8	17.0
40°-50°	539.2	17.8
50°-60°	497.1	16.4
60°-70°	390.2	12.9
70°-80°	217.7	7.2
80°-90°	58.2	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°	807.9	26.7
0°-40°	1322.6	43.7
0°-60°	2358.9	78.0
0°-90°	3025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3025.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1037	1036	1038	1038	1039	99
15°	1002	1000	1000	1000	1002	283
25°	932	928	924	924	924	429
35°	832	828	821	817	819	521
45°	709	704	695	692	696	547
55°	564	558	550	554	563	503
65°	398	392	386	400	413	393
75°	220	215	207	186	177	232
85°	49	48	50	48	49	61
90°	0	0	0	0	0	



TEST NUMBER: P393345

CATALOG NUMBER: 22EN-LD2-34-UNV-L93050-W2A-1-U (6500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1042.7	1042.7	1042.7	1042.7	1042.7
2.5°	1041.8	1040.9	1041.8	1042.7	1044.5
5°	1037.4	1036.5	1038.3	1038.3	1039.2
7.5°	1031.2	1030.3	1031.2	1032.1	1033.0
10°	1024.2	1023.3	1023.3	1024.2	1025.9
12.5°	1015.4	1013.6	1013.6	1013.6	1015.4
15°	1002.1	1000.4	1000.4	1000.4	1002.1
17.5°	988.0	986.2	984.5	984.5	986.2
20°	972.1	969.5	967.7	966.8	967.7
22.5°	951.8	950.1	947.4	945.7	947.4
25°	931.5	928.0	924.5	923.6	924.5
27.5°	908.6	905.1	900.7	898.9	900.7
30°	884.8	880.4	875.1	872.4	874.2
32.5°	859.2	855.7	848.6	846.0	846.9
35°	831.9	828.3	821.3	816.9	818.6
37.5°	803.6	799.2	791.3	786.9	788.6
40°	773.6	768.4	759.5	756.0	758.6
42.5°	741.9	737.5	728.7	725.1	728.7
45°	709.2	704.0	695.1	692.5	696.0
47.5°	674.0	670.4	661.6	660.7	664.3
50°	639.6	633.4	625.4	626.3	631.6
52.5°	601.6	596.3	587.5	591.0	598.1
55°	563.7	557.5	550.5	554.0	562.8
57.5°	523.1	518.7	510.8	516.1	526.6
60°	481.7	478.1	471.1	479.9	490.5
62.5°	441.1	434.9	428.7	440.2	452.5
65°	397.8	391.7	386.4	399.6	412.8
67.5°	352.9	348.4	344.0	354.6	363.4
70°	309.6	305.2	302.6	304.3	309.6
72.5°	265.5	261.1	258.5	248.8	242.6
75°	219.7	215.2	207.3	186.1	177.3
77.5°	174.7	172.0	156.1	137.6	140.3
80°	132.3	127.9	111.2	114.7	119.1
82.5°	90.0	85.6	83.8	81.2	82.0
85°	49.4	47.6	50.3	48.5	49.4
87.5°	19.4	20.3	22.1	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)