

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: P393339

Luminaire Tested: **22EN-LD2-34-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393339  
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 (3000K)  
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: 2817.9 lumens  
Efficiency: N/A  
Efficacy: 110.1 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

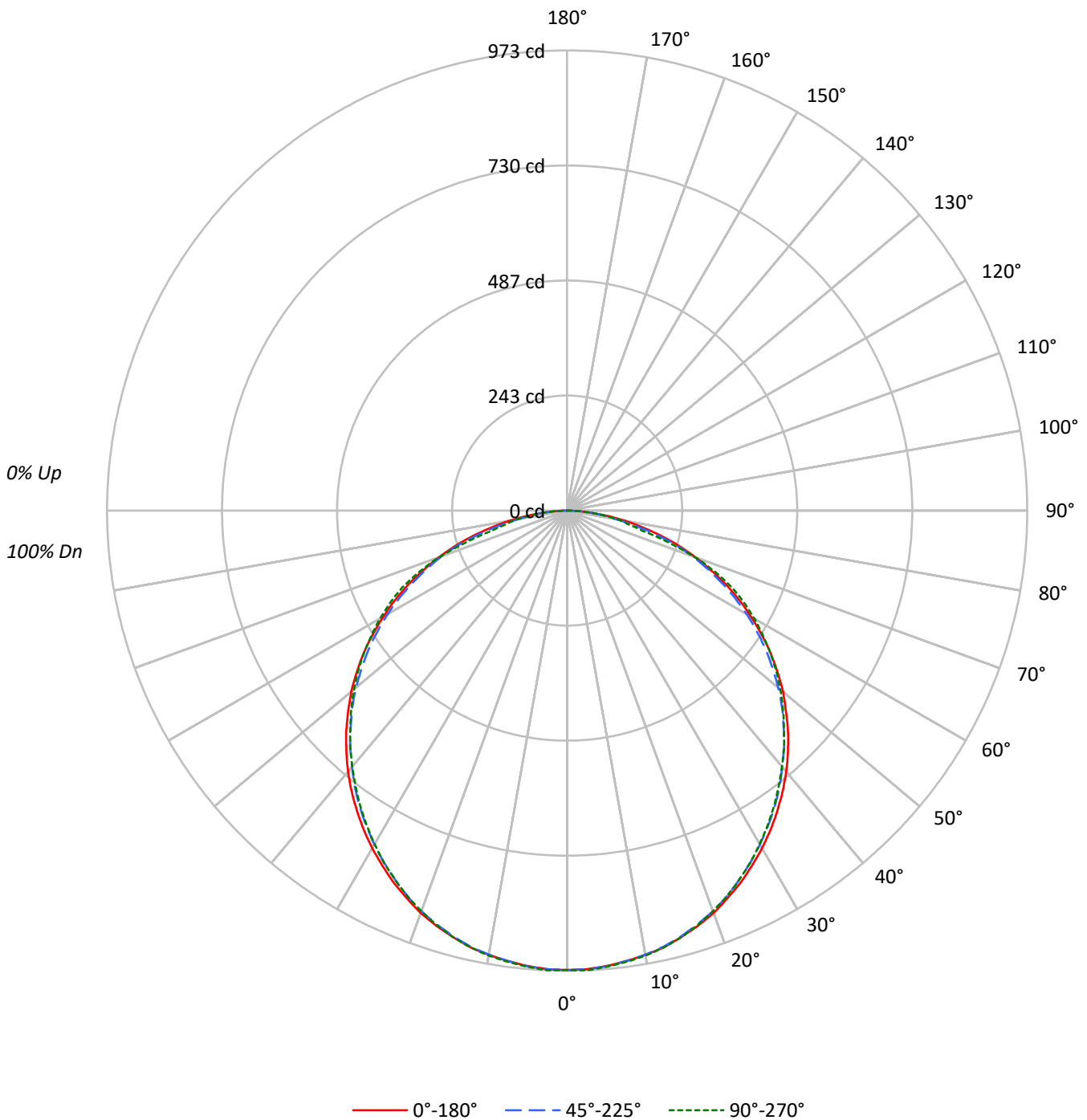
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P393339

CATALOG NUMBER: 22EN-LD2-34-UNV-L93050-W2A-1-U (3000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P393339

CATALOG NUMBER: 22EN-LD2-34-UNV-L93050-W2A-1-U (3000K)

**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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	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	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24					24			

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

	0°	45°	90°
0°	2614	2614	2614
5°	2610	2613	2615
10°	2607	2605	2611
15°	2601	2596	2601
20°	2593	2582	2582
25°	2577	2557	2557
30°	2561	2533	2530
35°	2546	2513	2505
40°	2532	2485	2483
45°	2514	2464	2468
50°	2494	2439	2463
55°	2464	2406	2460
60°	2415	2362	2459
65°	2360	2292	2449
70°	2269	2218	2269
75°	2127	2008	1718
80°	1911	1604	1719
85°	1420	1445	1420



TEST NUMBER: P393339

CATALOG NUMBER: 22EN-LD2-34-UNV-L93050-W2A-1-U (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.9	3.3
10°-20°	263.1	9.3
20°-30°	397.6	14.1
30°-40°	479.5	17.0
40°-50°	502.3	17.8
50°-60°	463.1	16.4
60°-70°	363.5	12.9
70°-80°	202.8	7.2
80°-90°	54.2	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°	752.5	26.7
0°-40°	1232.1	43.7
0°-60°	2197.4	78.0
0°-90°	2817.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2817.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	966	966	967	967	968	92
15°	934	932	932	932	934	264
25°	868	864	861	860	861	400
35°	775	772	765	761	763	485
45°	661	656	648	645	648	509
55°	525	519	513	516	524	469
65°	371	365	360	372	385	366
75°	205	200	193	173	165	216
85°	46	44	47	45	46	57
90°	0	0	0	0	0	



TEST NUMBER: P393339

CATALOG NUMBER: 22EN-LD2-34-UNV-L93050-W2A-1-U (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	971.3	971.3	971.3	971.3	971.3
2.5°	970.5	969.7	970.5	971.3	972.9
5°	966.4	965.5	967.2	967.2	968.0
7.5°	960.6	959.8	960.6	961.4	962.3
10°	954.0	953.2	953.2	954.0	955.7
12.5°	945.8	944.2	944.2	944.2	945.8
15°	933.5	931.9	931.9	931.9	933.5
17.5°	920.4	918.7	917.1	917.1	918.7
20°	905.6	903.1	901.5	900.6	901.5
22.5°	886.7	885.0	882.6	880.9	882.6
25°	867.8	864.5	861.2	860.4	861.2
27.5°	846.4	843.1	839.0	837.4	839.0
30°	824.2	820.1	815.2	812.7	814.3
32.5°	800.4	797.1	790.5	788.1	788.9
35°	774.9	771.6	765.0	760.9	762.6
37.5°	748.6	744.5	737.1	733.0	734.6
40°	720.7	715.7	707.5	704.2	706.7
42.5°	691.1	687.0	678.8	675.5	678.8
45°	660.7	655.8	647.5	645.1	648.4
47.5°	627.8	624.5	616.3	615.5	618.8
50°	595.8	590.0	582.6	583.4	588.4
52.5°	560.4	555.5	547.3	550.6	557.1
55°	525.1	519.3	512.8	516.1	524.3
57.5°	487.3	483.2	475.8	480.7	490.6
60°	448.7	445.4	438.8	447.0	456.9
62.5°	410.9	405.1	399.4	410.0	421.6
65°	370.6	364.9	359.9	372.2	384.6
67.5°	328.7	324.6	320.5	330.3	338.6
70°	288.4	284.3	281.9	283.5	288.4
72.5°	247.3	243.2	240.8	231.7	226.0
75°	204.6	200.5	193.1	173.4	165.2
77.5°	162.7	160.2	145.4	128.2	130.7
80°	123.3	119.2	103.5	106.8	110.9
82.5°	83.8	79.7	78.1	75.6	76.4
85°	46.0	44.4	46.8	45.2	46.0
87.5°	18.1	18.9	20.5	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)