

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: P393335

Luminaire Tested: **22EN-LD2-34-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393335  
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-L92765-W2A-1-U (5000K)  
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: 2890.4 lumens  
Efficiency: N/A  
Efficacy: 113.3 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

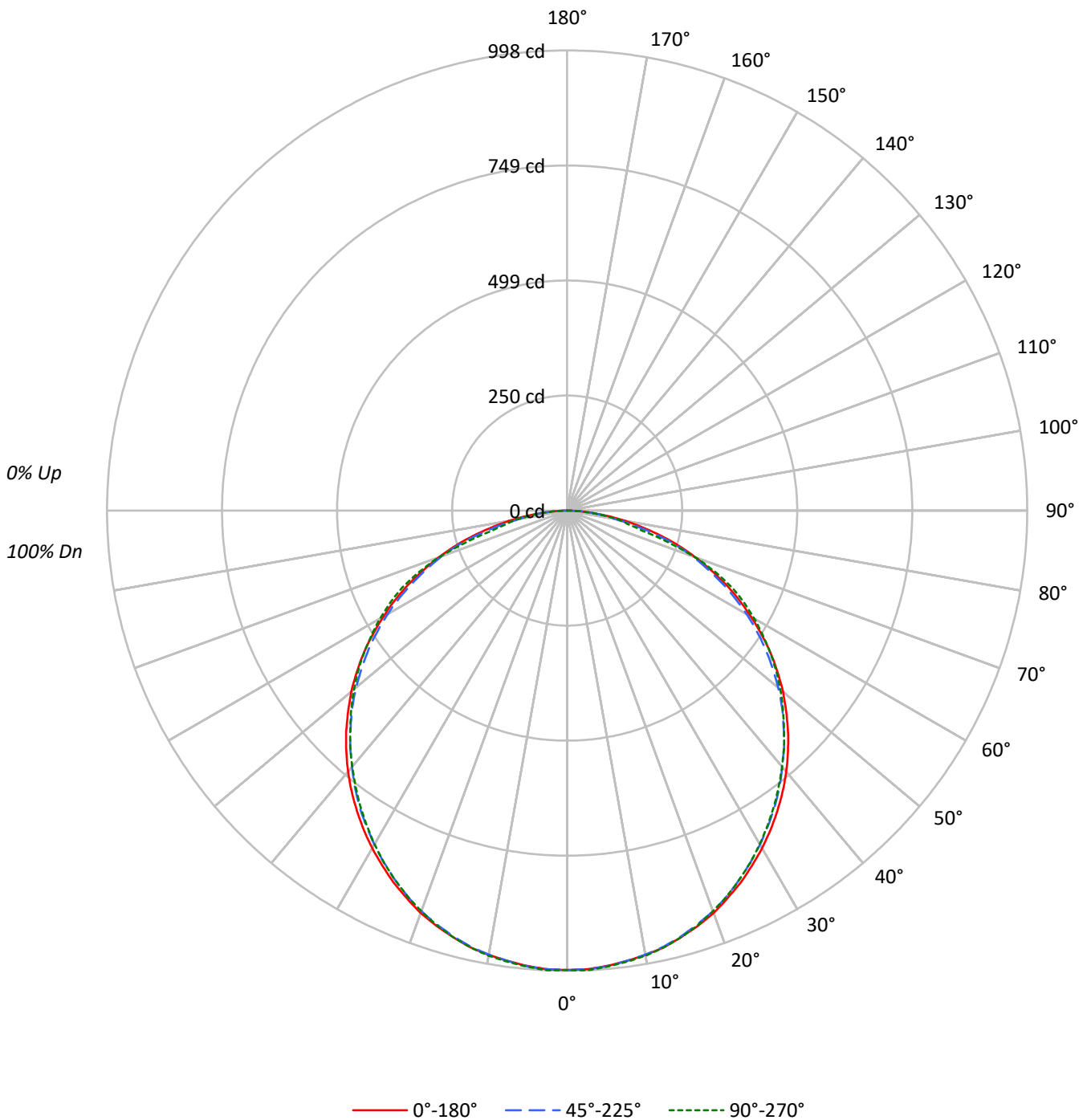
Input Watts (W): 25.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2681	2681	2681
5°	2677	2680	2682
10°	2674	2672	2679
15°	2668	2663	2668
20°	2660	2648	2648
25°	2643	2623	2623
30°	2627	2598	2596
35°	2611	2578	2570
40°	2597	2549	2546
45°	2579	2528	2531
50°	2558	2502	2527
55°	2527	2468	2523
60°	2477	2422	2523
65°	2420	2351	2512
70°	2328	2275	2328
75°	2182	2060	1761
80°	1959	1646	1764
85°	1457	1482	1457



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.2	3.3
10°-20°	269.9	9.3
20°-30°	407.8	14.1
30°-40°	491.9	17.0
40°-50°	515.2	17.8
50°-60°	475.0	16.4
60°-70°	372.8	12.9
70°-80°	208.0	7.2
80°-90°	55.6	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°	771.9	26.7
0°-40°	1263.8	43.7
0°-60°	2254.0	78.0
0°-90°	2890.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2890.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	991	990	992	992	993	94
15°	958	956	956	956	958	270
25°	890	887	883	882	883	410
35°	795	792	785	780	782	498
45°	678	673	664	662	665	523
55°	539	533	526	529	538	481
65°	380	374	369	382	394	375
75°	210	206	198	178	169	222
85°	47	46	48	46	47	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	996.3	996.3	996.3	996.3	996.3
2.5°	995.5	994.6	995.5	996.3	998.0
5°	991.2	990.4	992.1	992.1	992.9
7.5°	985.3	984.5	985.3	986.2	987.0
10°	978.6	977.8	977.8	978.6	980.3
12.5°	970.2	968.5	968.5	968.5	970.2
15°	957.5	955.8	955.8	955.8	957.5
17.5°	944.0	942.4	940.7	940.7	942.4
20°	928.9	926.3	924.7	923.8	924.7
22.5°	909.5	907.8	905.3	903.6	905.3
25°	890.1	886.7	883.4	882.5	883.4
27.5°	868.2	864.8	860.6	858.9	860.6
30°	845.4	841.2	836.2	833.6	835.3
32.5°	821.0	817.6	810.9	808.3	809.2
35°	794.9	791.5	784.7	780.5	782.2
37.5°	767.9	763.7	756.1	751.9	753.6
40°	739.2	734.2	725.7	722.4	724.9
42.5°	708.9	704.7	696.2	692.9	696.2
45°	677.7	672.6	664.2	661.7	665.0
47.5°	644.0	640.6	632.2	631.3	634.7
50°	611.1	605.2	597.6	598.5	603.5
52.5°	574.9	569.8	561.4	564.7	571.5
55°	538.6	532.7	526.0	529.3	537.8
57.5°	499.8	495.6	488.0	493.1	503.2
60°	460.2	456.9	450.1	458.5	468.7
62.5°	421.4	415.5	409.6	420.6	432.4
65°	380.1	374.2	369.2	381.8	394.5
67.5°	337.2	332.9	328.7	338.8	347.3
70°	295.9	291.6	289.1	290.8	295.9
72.5°	253.7	249.5	247.0	237.7	231.8
75°	209.9	205.7	198.1	177.9	169.4
77.5°	166.9	164.4	149.2	131.5	134.0
80°	126.4	122.2	106.2	109.6	113.8
82.5°	86.0	81.8	80.1	77.5	78.4
85°	47.2	45.5	48.0	46.4	47.2
87.5°	18.5	19.4	21.1	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)