

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: P393334

Luminaire Tested: **22EN-LD2-34-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393334  
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 (4500K)  
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: 2817.0 lumens  
Efficiency: N/A  
Efficacy: 110.0 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

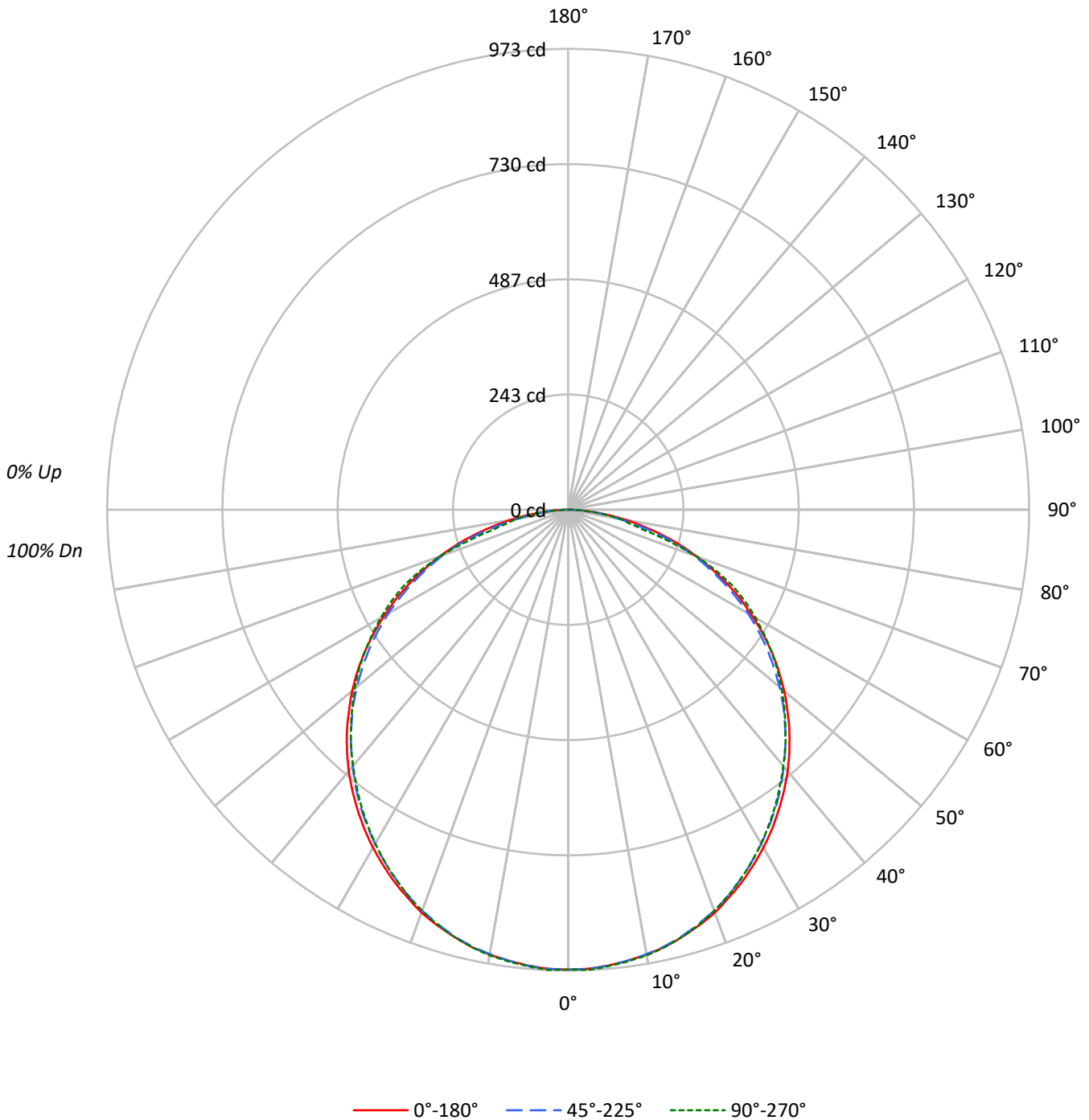
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2613	2613	2613
5°	2610	2612	2614
10°	2606	2604	2611
15°	2600	2595	2600
20°	2592	2581	2581
25°	2576	2556	2556
30°	2560	2532	2530
35°	2545	2512	2504
40°	2531	2485	2482
45°	2514	2463	2467
50°	2493	2438	2462
55°	2463	2405	2459
60°	2414	2361	2458
65°	2359	2291	2448
70°	2268	2217	2268
75°	2127	2008	1717
80°	1909	1604	1719
85°	1420	1445	1420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.8	3.3
10°-20°	263.0	9.3
20°-30°	397.5	14.1
30°-40°	479.4	17.0
40°-50°	502.1	17.8
50°-60°	462.9	16.4
60°-70°	363.4	12.9
70°-80°	202.7	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°	752.3	26.7
0°-40°	1231.7	43.7
0°-60°	2196.7	78.0
0°-90°	2817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2817.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	966	965	967	967	968	92
15°	933	932	932	932	933	264
25°	868	864	861	860	861	400
35°	775	771	765	761	762	485
45°	660	656	647	645	648	509
55°	525	519	513	516	524	468
65°	370	365	360	372	384	366
75°	205	200	193	173	165	216
85°	46	44	47	45	46	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	971.0	971.0	971.0	971.0	971.0
2.5°	970.2	969.4	970.2	971.0	972.6
5°	966.1	965.3	966.9	966.9	967.7
7.5°	960.3	959.5	960.3	961.1	962.0
10°	953.8	952.9	952.9	953.8	955.4
12.5°	945.5	943.9	943.9	943.9	945.5
15°	933.2	931.6	931.6	931.6	933.2
17.5°	920.1	918.4	916.8	916.8	918.4
20°	905.3	902.8	901.2	900.4	901.2
22.5°	886.4	884.7	882.3	880.6	882.3
25°	867.5	864.2	860.9	860.1	860.9
27.5°	846.1	842.8	838.7	837.1	838.7
30°	824.0	819.8	814.9	812.5	814.1
32.5°	800.1	796.8	790.3	787.8	788.6
35°	774.7	771.4	764.8	760.7	762.3
37.5°	748.4	744.3	736.9	732.8	734.4
40°	720.4	715.5	707.3	704.0	706.5
42.5°	690.9	686.8	678.6	675.3	678.6
45°	660.5	655.5	647.3	644.9	648.2
47.5°	627.6	624.3	616.1	615.3	618.6
50°	595.6	589.8	582.4	583.3	588.2
52.5°	560.3	555.3	547.1	550.4	557.0
55°	524.9	519.2	512.6	515.9	524.1
57.5°	487.1	483.0	475.6	480.6	490.4
60°	448.5	445.2	438.7	446.9	456.7
62.5°	410.7	405.0	399.2	409.9	421.4
65°	370.5	364.7	359.8	372.1	384.5
67.5°	328.6	324.5	320.4	330.2	338.5
70°	288.3	284.2	281.8	283.4	288.3
72.5°	247.3	243.2	240.7	231.7	225.9
75°	204.6	200.4	193.1	173.3	165.1
77.5°	162.7	160.2	145.4	128.2	130.6
80°	123.2	119.1	103.5	106.8	110.9
82.5°	83.8	79.7	78.0	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)