

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: P881095

Luminaire Tested: **22CZ2-34VHE-RDP-UNV-B35**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P881095  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474998)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-34VHE-RDP-UNV-B35  
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

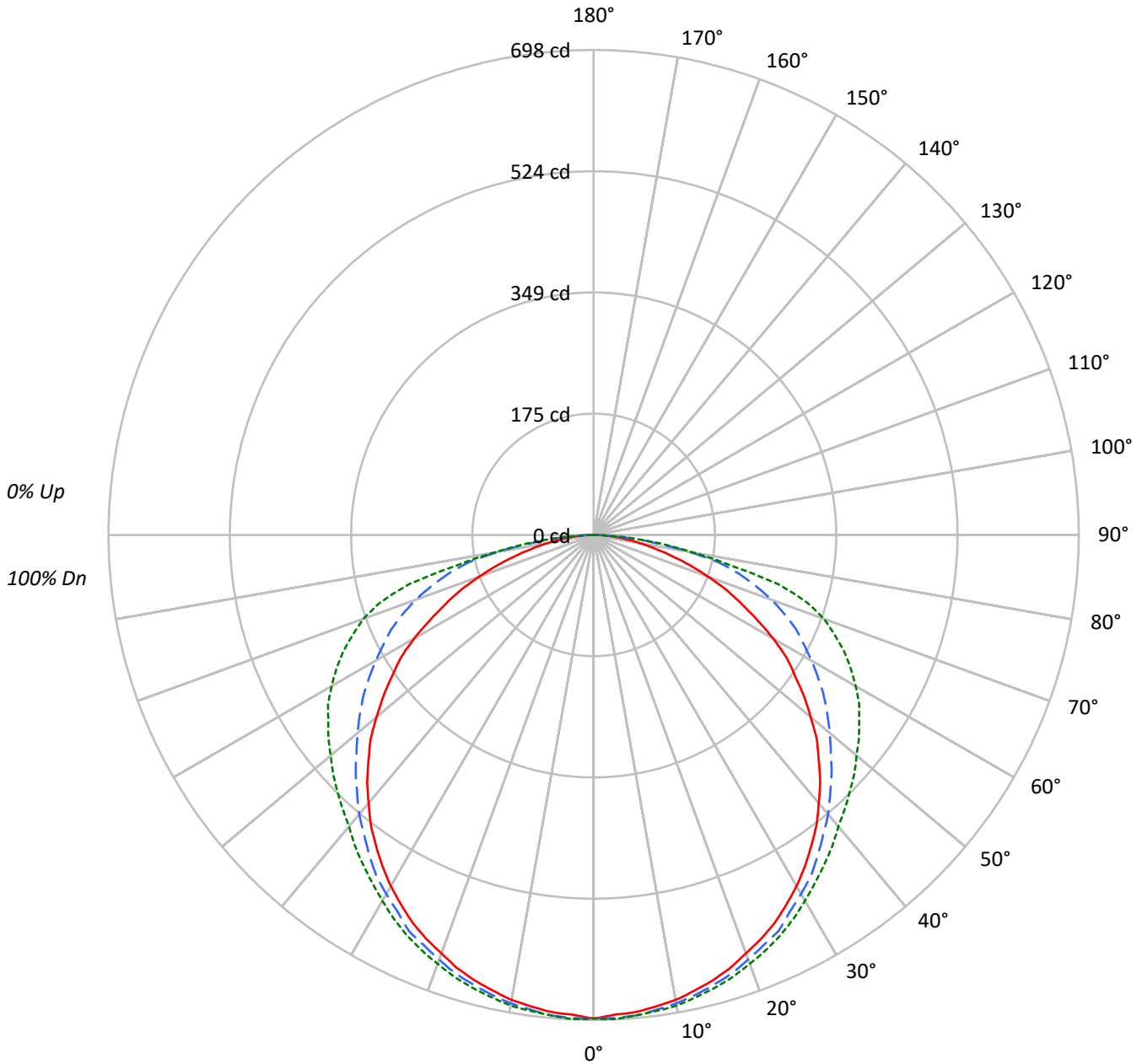
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2216.0 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 27  
Input Voltage (V): NR  
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: P881095  
CATALOG NUMBER: 22CZ2-34VHE-RDP-UNV-B35

### Luminous Intensity Polar Plot





TEST NUMBER: P881095

CATALOG NUMBER: 22CZ2-34VHE-RDP-UNV-B35

**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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22			

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

	0°	45°	90°
0°	1975	1975	1975
5°	1964	1978	1978
10°	1958	1973	1982
15°	1949	1968	1982
20°	1935	1964	1984
25°	1929	1970	1991
30°	1912	1955	1992
35°	1891	1948	2005
40°	1866	1944	2029
45°	1838	1943	2093
50°	1799	1957	2180
55°	1750	2001	2306
60°	1693	2053	2470
65°	1576	2157	2671
70°	1447	2259	2922
75°	1270	2377	3020
80°	1093	2262	2373
85°	957	1644	1804



TEST NUMBER: P881095

CATALOG NUMBER: 22CZ2-34VHE-RDP-UNV-B35

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.8	3.0
10°-20°	189.0	8.5
20°-30°	288.4	13.0
30°-40°	352.2	15.9
40°-50°	376.6	17.0
50°-60°	363.5	16.4
60°-70°	312.9	14.1
70°-80°	211.7	9.6
80°-90°	55.9	2.5
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°	543.3	24.5
0°-40°	895.5	40.4
0°-60°	1635.5	73.8
0°-90°	2216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2216.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	690	691	694	694	694	65
15°	664	665	670	673	675	187
25°	616	619	629	633	636	284
35°	546	551	562	574	579	342
45°	458	466	484	509	522	354
55°	354	365	404	445	466	317
65°	235	258	321	372	398	233
75°	116	153	217	261	276	124
85°	29	41	50	52	55	33
90°	0	0	0	0	0	



TEST NUMBER: P881095

CATALOG NUMBER: 22CZ2-34VHE-RDP-UNV-B35

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	696.1	696.1	696.1	696.1	696.1
2.5°	691.2	692.7	696.1	696.1	697.6
5°	689.5	691.2	694.4	694.4	694.4
7.5°	684.6	686.3	689.5	691.2	691.2
10°	679.7	681.4	684.6	686.3	688.0
12.5°	671.6	673.1	678.0	681.4	681.4
15°	663.5	665.0	669.9	673.1	674.8
17.5°	653.5	656.9	661.8	665.0	666.7
20°	640.7	643.9	650.3	655.4	656.9
22.5°	629.2	632.6	639.0	643.9	647.1
25°	616.2	619.4	629.2	632.6	635.8
27.5°	599.9	603.2	611.3	617.8	622.7
30°	583.7	586.9	596.7	604.9	608.1
32.5°	565.6	570.5	582.0	588.5	593.3
35°	546.0	550.9	562.4	573.7	578.8
37.5°	526.6	531.5	542.8	557.5	564.1
40°	503.8	510.2	524.9	544.5	547.7
42.5°	482.5	490.6	503.8	526.6	534.7
45°	458.0	466.1	484.2	508.7	521.5
47.5°	435.2	443.4	462.9	492.3	508.7
50°	407.6	418.9	443.4	477.6	493.8
52.5°	381.4	391.2	423.9	461.2	481.0
55°	353.7	365.2	404.4	445.0	466.1
57.5°	329.4	339.0	383.1	428.8	453.1
60°	298.3	311.3	361.8	410.8	435.2
62.5°	265.6	285.3	340.7	391.2	417.2
65°	234.7	257.5	321.3	371.6	397.8
67.5°	207.0	231.5	296.8	350.5	375.0
70°	174.4	205.5	272.3	324.5	352.2
72.5°	145.2	179.3	244.6	296.8	321.3
75°	115.8	153.3	216.8	260.8	275.5
77.5°	89.6	125.6	185.7	198.9	200.6
80°	66.9	99.4	138.4	140.1	145.2
82.5°	45.8	70.1	89.6	97.8	99.4
85°	29.4	40.9	50.5	52.2	55.4
87.5°	13.2	14.7	17.9	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)