

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: P881091

Luminaire Tested: **22CZ2-29VHE-UNV-B50**

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: P881091  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474795)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-29VHE-UNV-B50  
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

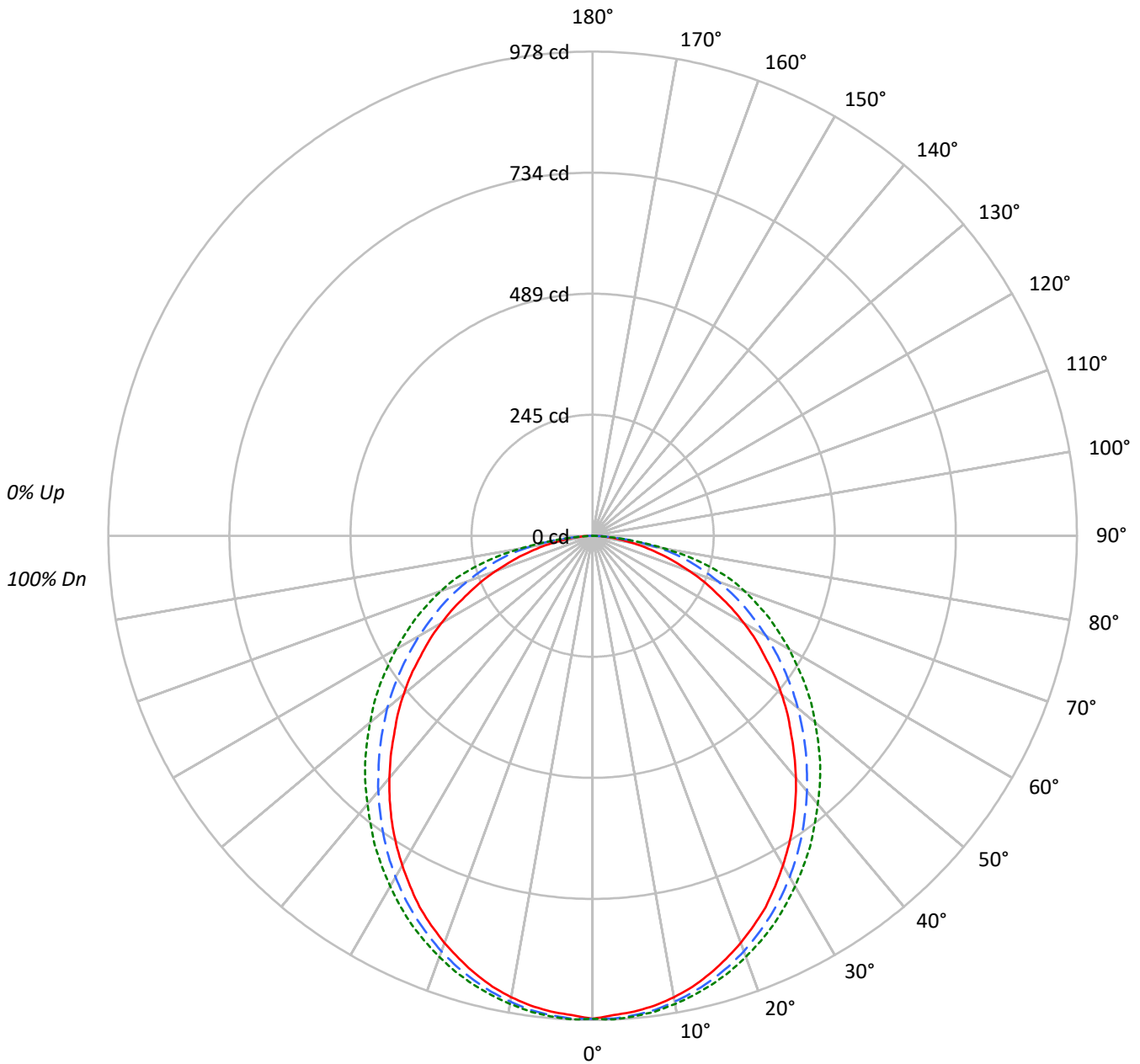
Lumens per Lamp: N/A  
Luminaire Lumens: 2690.0 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
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

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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	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	77	85	79	75	81	77	73	78	75	71	69								
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58								
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50								
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43								
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38								
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33								
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30								
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27								
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24								

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

	0°	45°	90°
0°	2768	2768	2768
5°	2748	2769	2775
10°	2727	2753	2767
15°	2690	2729	2754
20°	2642	2697	2733
25°	2590	2656	2711
30°	2518	2608	2679
35°	2448	2552	2653
40°	2365	2495	2620
45°	2275	2439	2607
50°	2201	2389	2587
55°	2098	2337	2593
60°	2003	2297	2600
65°	1863	2267	2641
70°	1722	2235	2707
75°	1540	2226	2724
80°	1291	2110	2378
85°	1000	1446	1351



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.2	3.4
10°-20°	261.6	9.7
20°-30°	390.1	14.5
30°-40°	460.5	17.1
40°-50°	469.4	17.4
50°-60°	423.3	15.7
60°-70°	332.7	12.4
70°-80°	208.3	7.7
80°-90°	52.0	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°	743.9	27.7
0°-40°	1204.4	44.8
0°-60°	2097.1	78.0
0°-90°	2690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2690.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	965	967	972	974	974	92
15°	916	920	929	936	937	258
25°	827	833	848	861	866	380
35°	707	716	737	757	766	442
45°	567	579	608	637	650	438
55°	424	437	472	509	524	381
65°	277	294	338	375	393	277
75°	140	161	203	239	248	149
85°	31	39	44	44	42	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	975.6	975.6	975.6	975.6	975.6
2.5°	969.2	971.6	976.1	977.8	977.8
5°	964.7	967.0	972.1	974.4	974.4
7.5°	957.3	959.6	965.9	968.7	969.2
10°	946.6	949.4	955.6	960.2	960.2
12.5°	932.9	935.7	943.7	949.4	949.9
15°	915.8	919.8	928.9	935.7	937.4
17.5°	896.0	902.2	912.4	921.0	922.7
20°	874.9	881.1	893.0	902.7	905.1
22.5°	851.6	857.3	871.4	883.5	886.3
25°	827.2	833.4	848.2	861.2	865.9
27.5°	798.2	805.6	823.2	837.9	842.5
30°	768.6	777.7	795.9	812.3	817.5
32.5°	738.5	747.0	767.4	785.0	791.9
35°	706.6	715.7	736.8	757.2	765.8
37.5°	673.1	682.2	705.0	728.2	736.1
40°	638.5	649.2	673.7	698.6	707.2
42.5°	603.2	614.5	640.1	668.0	679.3
45°	566.8	579.2	607.7	637.3	649.7
47.5°	533.8	544.0	573.7	606.0	617.9
50°	498.5	508.2	541.2	573.7	586.1
52.5°	462.8	471.9	507.1	541.2	556.6
55°	424.1	437.2	472.4	508.7	524.1
57.5°	390.0	401.9	438.4	475.2	490.1
60°	353.0	365.5	404.7	442.3	458.2
62.5°	316.1	329.7	369.5	409.9	424.7
65°	277.4	294.5	337.7	375.2	393.4
67.5°	244.5	260.9	303.6	342.8	358.7
70°	207.5	226.9	269.4	309.3	326.3
72.5°	172.8	192.2	235.9	275.8	292.7
75°	140.5	161.4	203.0	239.3	248.5
77.5°	109.2	129.1	170.6	191.6	201.3
80°	79.0	98.3	129.1	143.3	145.5
82.5°	53.4	70.0	87.6	91.6	89.3
85°	30.7	39.2	44.4	44.4	41.5
87.5°	12.5	12.5	10.9	6.8	4.0
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)