

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: P880688

Luminaire Tested: **22CZ2-29VHE-S-B2750-W2D-3000K**

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: P880688  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475230)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-29VHE-S-B2750-W2D-3000K  
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

**Summary**

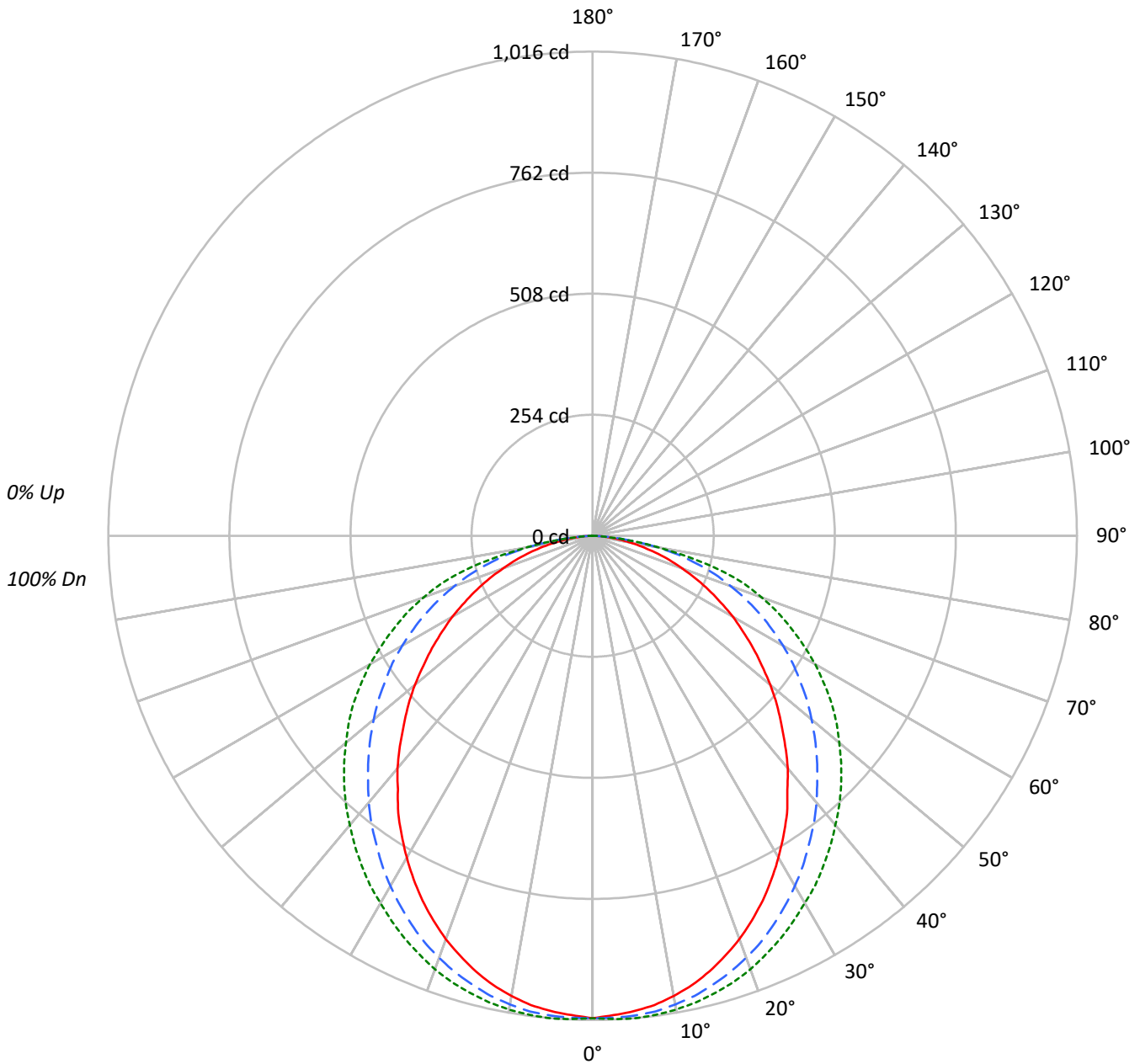
Lumens per Lamp: N/A  
Luminaire Lumens: 2898.0 lumens  
Efficiency: N/A  
Efficacy: 131.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P880688

CATALOG NUMBER: 22CZ2-29VHE-S-B2750-W2D-3000K

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	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	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																			
6	70	56	47	41	68	55	47	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	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

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

	0°	45°	90°
0°	2872	2872	2872
5°	2852	2879	2895
10°	2826	2877	2909
15°	2780	2864	2918
20°	2720	2845	2924
25°	2644	2817	2920
30°	2555	2781	2916
35°	2463	2740	2926
40°	2359	2706	2935
45°	2246	2671	2959
50°	2149	2647	2981
55°	2035	2626	3028
60°	1928	2616	3061
65°	1800	2595	3084
70°	1653	2555	3126
75°	1494	2488	3015
80°	1279	2204	2270
85°	1029	1299	1029



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	3.3
10°-20°	274.4	9.5
20°-30°	412.1	14.2
30°-40°	491.5	17.0
40°-50°	508.2	17.5
50°-60°	467.2	16.1
60°-70°	372.0	12.8
70°-80°	227.2	7.8
80°-90°	49.4	1.7
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°	782.5	27.0
0°-40°	1274.0	44.0
0°-60°	2249.5	77.6
0°-90°	2898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1001	1004	1011	1015	1016	95
15°	946	957	975	989	993	267
25°	845	865	900	924	933	388
35°	711	741	791	832	845	444
45°	560	600	666	719	737	433
55°	411	457	531	591	612	368
65°	268	314	386	440	459	266
75°	136	176	227	267	275	145
85°	32	38	40	34	32	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1012.3	1012.3	1012.3	1012.3	1012.3
2.5°	1006.9	1008.1	1012.3	1015.1	1015.1
5°	1001.3	1004.1	1010.9	1015.1	1016.5
7.5°	993.2	997.2	1006.9	1012.3	1013.9
10°	980.7	986.3	998.6	1006.9	1009.5
12.5°	965.6	973.9	989.0	1000.0	1002.7
15°	946.5	957.4	975.1	989.0	993.2
17.5°	924.3	938.0	960.2	976.7	982.1
20°	900.8	914.7	942.2	961.4	968.3
22.5°	873.4	891.3	922.9	945.1	950.5
25°	844.6	865.2	899.6	924.3	932.6
27.5°	812.8	837.8	874.8	905.2	912.0
30°	779.8	806.0	848.7	881.7	889.9
32.5°	745.4	775.8	821.1	858.3	869.4
35°	711.0	741.4	790.9	832.3	844.6
37.5°	671.1	707.0	762.1	804.7	819.7
40°	636.9	671.1	730.5	777.2	792.3
42.5°	598.3	635.5	697.5	748.2	766.1
45°	559.8	599.7	665.7	719.4	737.3
47.5°	524.0	563.9	632.7	689.2	707.0
50°	486.9	528.2	599.7	657.4	675.3
52.5°	447.1	492.4	566.7	624.4	645.1
55°	411.3	456.6	530.8	591.4	612.1
57.5°	374.0	420.9	498.0	555.8	575.1
60°	339.8	385.1	460.9	517.1	539.3
62.5°	302.6	349.3	423.6	478.7	499.4
65°	268.1	313.6	386.5	440.2	459.4
67.5°	233.7	279.4	347.9	398.9	420.9
70°	199.3	244.9	308.0	357.7	376.8
72.5°	169.3	209.1	269.5	315.0	332.9
75°	136.3	176.1	226.9	266.7	275.0
77.5°	105.9	141.7	184.4	202.1	205.1
80°	78.3	105.9	134.9	138.9	138.9
82.5°	52.2	72.9	83.9	85.2	83.9
85°	31.6	38.5	39.9	34.4	31.6
87.5°	10.9	10.9	6.9	4.0	1.4
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)