

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: P880642

Luminaire Tested: **22CZ2-20VHE-SQR-B2750-W2D-2700K**

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: P880642  
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: 22CZ2-20VHE-SQR-B2750-W2D-2700K  
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

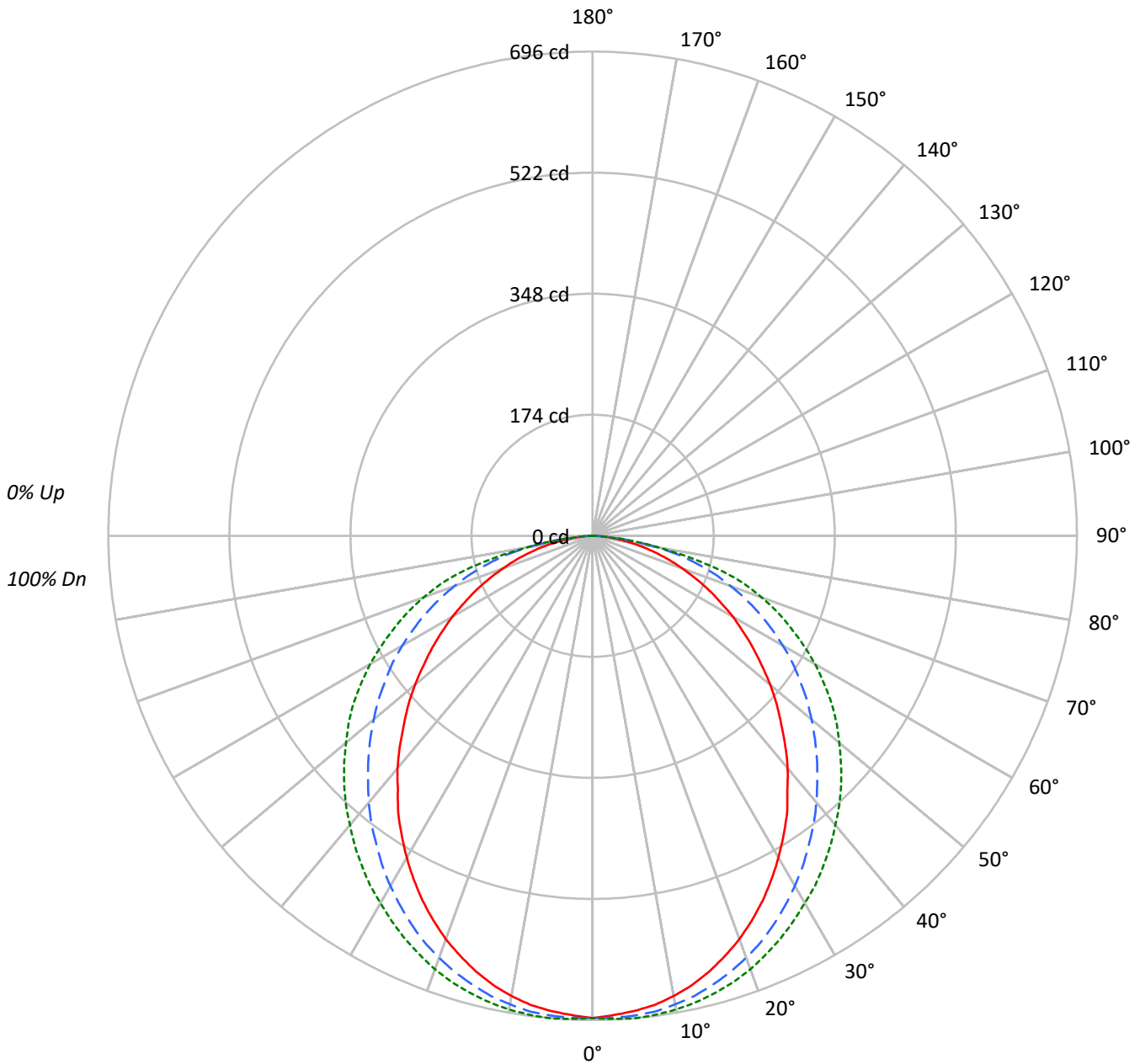
Lumens per Lamp: N/A  
Luminaire Lumens: 1985.0 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
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									
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°	1968	1968	1968
5°	1953	1972	1983
10°	1935	1971	1992
15°	1904	1962	1998
20°	1863	1949	2003
25°	1811	1929	2000
30°	1750	1905	1997
35°	1687	1876	2004
40°	1616	1853	2010
45°	1539	1830	2027
50°	1472	1813	2042
55°	1394	1799	2074
60°	1321	1792	2096
65°	1233	1777	2112
70°	1132	1751	2141
75°	1023	1704	2066
80°	876	1510	1554
85°	706	889	706



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.7	3.3
10°-20°	188.0	9.5
20°-30°	282.3	14.2
30°-40°	336.7	17.0
40°-50°	348.1	17.5
50°-60°	320.0	16.1
60°-70°	254.8	12.8
70°-80°	155.6	7.8
80°-90°	33.8	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°	536.0	27.0
0°-40°	872.7	44.0
0°-60°	1540.8	77.6
0°-90°	1985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1985.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	693	693	693	693	693	
5°	686	688	692	695	696	65
15°	648	656	668	677	680	183
25°	578	593	616	633	639	266
35°	487	508	542	570	578	304
45°	383	411	456	493	505	296
55°	282	313	364	405	419	252
65°	184	215	265	302	315	182
75°	93	121	155	183	188	99
85°	22	26	27	24	22	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	693.4	693.4	693.4	693.4	693.4
2.5°	689.7	690.5	693.4	695.3	695.3
5°	685.8	687.7	692.4	695.3	696.3
7.5°	680.3	683.0	689.7	693.4	694.5
10°	671.7	675.6	684.0	689.7	691.5
12.5°	661.4	667.0	677.4	685.0	686.8
15°	648.3	655.7	667.9	677.4	680.3
17.5°	633.1	642.5	657.7	669.0	672.7
20°	617.0	626.5	645.4	658.5	663.2
22.5°	598.3	610.5	632.2	647.3	651.1
25°	578.5	592.6	616.2	633.1	638.8
27.5°	556.8	573.8	599.2	620.0	624.7
30°	534.2	552.1	581.3	603.9	609.6
32.5°	510.6	531.4	562.4	587.9	595.5
35°	487.0	507.8	541.7	570.1	578.5
37.5°	459.7	484.2	522.0	551.2	561.5
40°	436.2	459.7	500.3	532.3	542.7
42.5°	409.8	435.3	477.7	512.5	524.8
45°	383.4	410.7	456.0	492.8	505.0
47.5°	358.9	386.2	433.4	472.1	484.2
50°	333.5	361.8	410.7	450.3	462.6
52.5°	306.2	337.3	388.1	427.7	441.9
55°	281.7	312.7	363.6	405.1	419.3
57.5°	256.2	288.3	341.1	380.7	393.9
60°	232.7	263.8	315.7	354.2	369.4
62.5°	207.2	239.2	290.1	327.9	342.1
65°	183.7	214.8	264.7	301.5	314.6
67.5°	160.1	191.3	238.3	273.3	288.3
70°	136.5	167.8	211.0	245.0	258.1
72.5°	115.9	143.2	184.6	215.8	228.0
75°	93.3	120.6	155.4	182.7	188.4
77.5°	72.5	97.1	126.3	138.4	140.5
80°	53.6	72.5	92.4	95.1	95.1
82.5°	35.7	49.9	57.5	58.3	57.5
85°	21.7	26.3	27.3	23.6	21.7
87.5°	7.5	7.5	4.7	2.8	1.0
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)