

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: P731984

Luminaire Tested: **22CZ2-24HE-SQR-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387672)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-24HE-SQR-B2750-W2D-4000K  
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

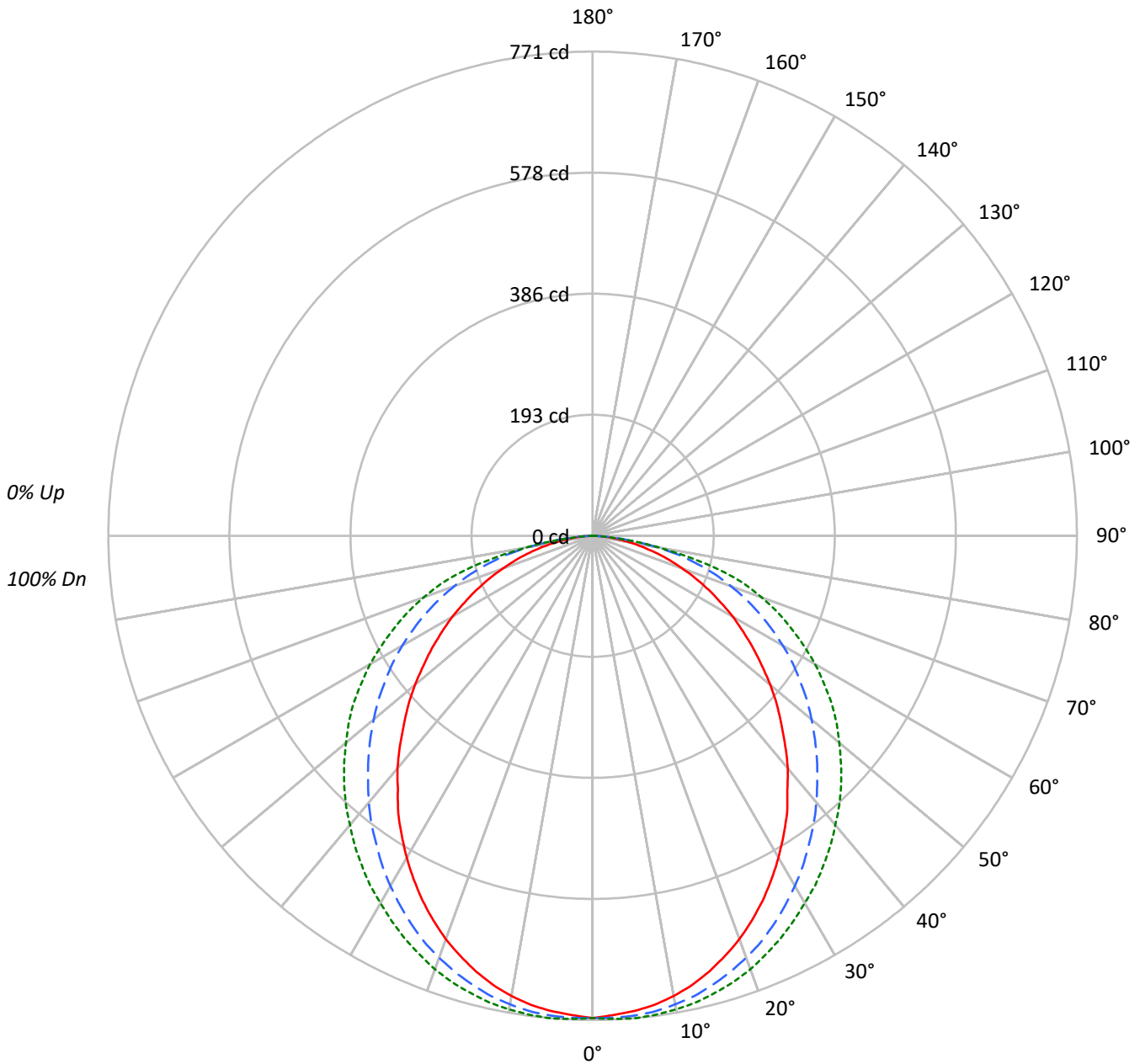
Lumens per Lamp: N/A  
Luminaire Lumens: 2199.0 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P731984

CATALOG NUMBER: 22CZ2-24HE-SQR-B2750-W2D-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P731984

CATALOG NUMBER: 22CZ2-24HE-SQR-B2750-W2D-4000K

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

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

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

	0°	45°	90°
0°	2180	2180	2180
5°	2164	2185	2197
10°	2144	2183	2207
15°	2109	2174	2214
20°	2064	2159	2219
25°	2006	2137	2215
30°	1939	2110	2213
35°	1869	2079	2220
40°	1790	2053	2227
45°	1705	2027	2245
50°	1631	2009	2262
55°	1544	1993	2298
60°	1463	1985	2322
65°	1367	1969	2341
70°	1256	1940	2372
75°	1134	1889	2288
80°	974	1672	1724
85°	785	986	785



TEST NUMBER: P731984

CATALOG NUMBER: 22CZ2-24HE-SQR-B2750-W2D-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.8	3.3
10°-20°	208.2	9.5
20°-30°	312.7	14.2
30°-40°	373.0	17.0
40°-50°	385.6	17.5
50°-60°	354.5	16.1
60°-70°	282.2	12.8
70°-80°	172.5	7.8
80°-90°	37.5	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°	593.7	27.0
0°-40°	966.7	44.0
0°-60°	1706.8	77.6
0°-90°	2199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2199.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	760	762	767	770	771	72
15°	718	726	740	750	754	202
25°	641	656	682	701	708	295
35°	540	563	600	632	641	337
45°	425	455	505	546	559	328
55°	312	346	403	449	464	279
65°	204	238	293	334	349	202
75°	103	134	172	202	209	110
85°	24	29	30	26	24	28
90°	0	0	0	0	0	



TEST NUMBER: P731984

CATALOG NUMBER: 22CZ2-24HE-SQR-B2750-W2D-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	768.1	768.1	768.1	768.1	768.1
2.5°	763.9	765.0	768.1	770.2	770.2
5°	759.7	761.8	767.1	770.2	771.3
7.5°	753.5	756.7	763.9	768.1	769.2
10°	744.2	748.3	757.7	763.9	766.0
12.5°	732.6	738.9	750.4	758.8	760.9
15°	718.0	726.4	740.0	750.4	753.5
17.5°	701.3	711.7	728.4	741.0	745.1
20°	683.6	694.1	714.9	729.6	734.7
22.5°	662.8	676.3	700.3	717.0	721.2
25°	640.8	656.5	682.5	701.3	707.6
27.5°	616.8	635.6	663.7	686.7	692.0
30°	591.8	611.6	644.0	669.0	675.3
32.5°	565.6	588.6	623.1	651.2	659.6
35°	539.6	562.6	600.1	631.5	640.8
37.5°	509.3	536.4	578.2	610.6	622.0
40°	483.3	509.3	554.2	589.7	601.1
42.5°	454.0	482.1	529.2	567.7	581.4
45°	424.8	455.0	505.1	545.9	559.4
47.5°	397.7	427.9	480.1	522.9	536.4
50°	369.4	400.7	455.0	498.8	512.5
52.5°	339.2	373.6	430.0	473.8	489.5
55°	312.1	346.5	402.8	448.8	464.5
57.5°	283.9	319.3	377.8	421.6	436.2
60°	257.8	292.2	349.7	392.4	409.1
62.5°	229.6	265.1	321.4	363.2	378.9
65°	203.6	237.9	293.3	334.0	348.6
67.5°	177.4	211.9	264.1	302.6	319.3
70°	151.4	185.8	233.8	271.3	285.9
72.5°	128.4	158.6	204.5	239.1	252.6
75°	103.4	133.6	172.3	202.5	208.7
77.5°	80.4	107.6	139.8	153.5	155.6
80°	59.6	80.4	102.3	105.5	105.5
82.5°	39.7	55.4	63.7	64.7	63.7
85°	24.1	29.2	30.3	26.2	24.1
87.5°	8.3	8.3	5.3	3.2	1.1
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)