

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: P880668

Luminaire Tested: **22CZ2-24VHE-SQR-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: P880668
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: 22CZ2-24VHE-SQR-B2750-W2D-3000K
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

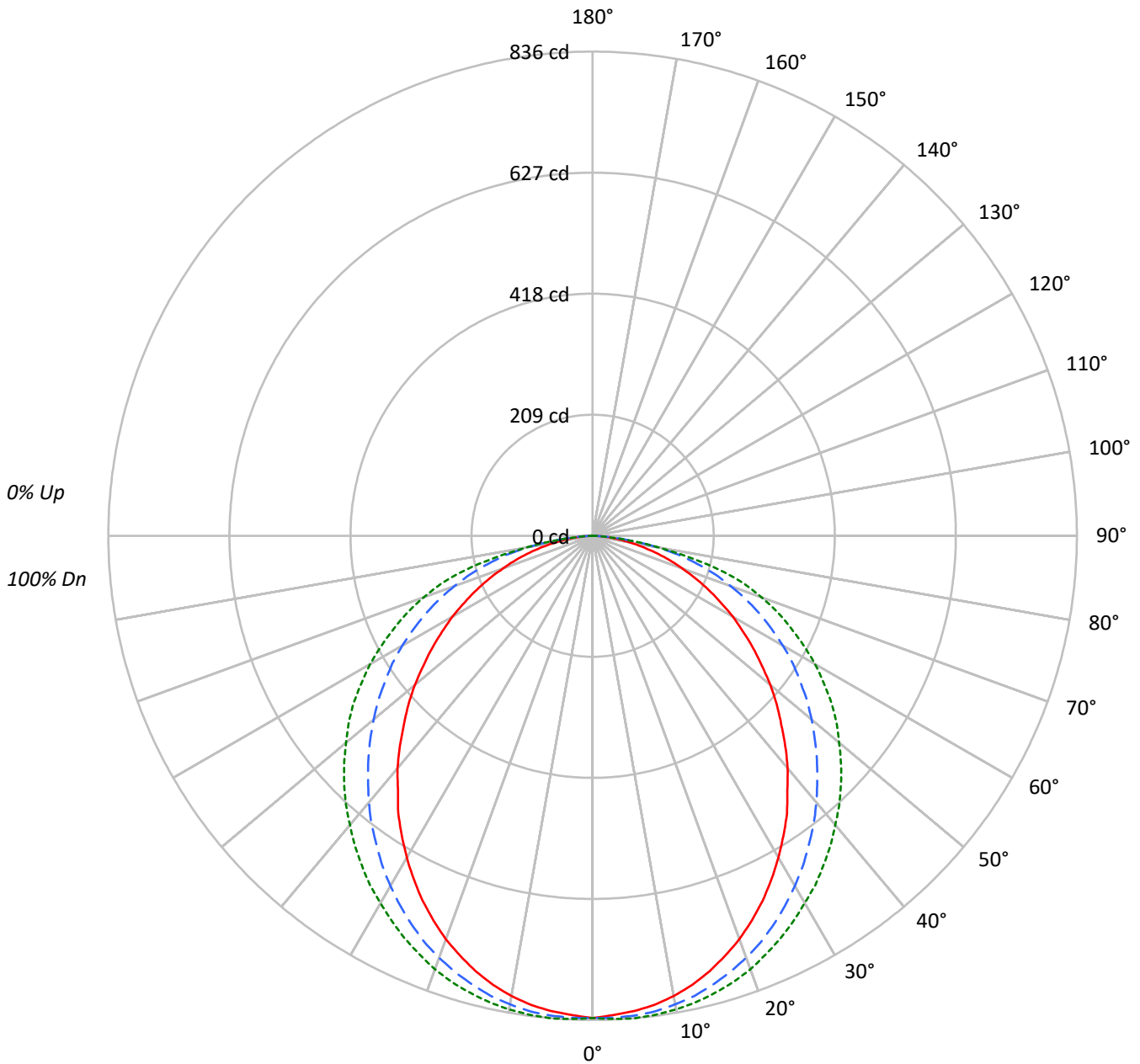
Lumens per Lamp: N/A
Luminaire Lumens: 2384.0 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 20
Input Voltage (V): NR
Input Current (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				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°	2363	2363	2363
5°	2346	2369	2382
10°	2325	2367	2393
15°	2287	2357	2400
20°	2238	2341	2405
25°	2175	2317	2402
30°	2102	2287	2399
35°	2026	2254	2407
40°	1941	2226	2414
45°	1848	2197	2434
50°	1768	2178	2453
55°	1674	2160	2491
60°	1586	2152	2517
65°	1481	2134	2537
70°	1361	2102	2572
75°	1229	2046	2480
80°	1052	1812	1868
85°	846	1068	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	3.3
10°-20°	225.7	9.5
20°-30°	339.0	14.2
30°-40°	404.3	17.0
40°-50°	418.1	17.5
50°-60°	384.4	16.1
60°-70°	306.0	12.8
70°-80°	186.9	7.8
80°-90°	40.6	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°	643.7	27.0
0°-40°	1048.1	44.0
0°-60°	1850.5	77.6
0°-90°	2384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	824	826	832	835	836	78
15°	779	788	802	814	817	219
25°	695	712	740	760	767	320
35°	585	610	651	685	695	365
45°	460	493	548	592	606	356
55°	338	376	437	486	504	303
65°	221	258	318	362	378	219
75°	112	145	187	219	226	119
85°	26	32	33	28	26	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	832.8	832.8	832.8	832.8	<i>832.8</i>
2.5°	828.3	829.3	832.8	835.1	<i>835.1</i>
5°	<i>823.7</i>	<i>826.0</i>	<i>831.6</i>	<i>835.1</i>	<i>836.2</i>
7.5°	817.0	820.3	828.3	832.8	<i>834.1</i>
10°	806.8	811.4	821.5	828.3	<i>830.5</i>
12.5°	794.3	801.1	813.6	822.7	<i>824.8</i>
15°	778.6	787.6	802.2	813.6	<i>817.0</i>
17.5°	760.4	771.7	789.9	803.4	<i>807.9</i>
20°	741.1	752.5	775.1	790.9	<i>796.5</i>
22.5°	718.5	733.2	759.2	777.4	<i>781.9</i>
25°	694.8	711.7	740.0	760.4	<i>767.2</i>
27.5°	668.7	689.2	719.7	744.6	<i>750.3</i>
30°	641.5	663.0	698.1	725.3	<i>732.1</i>
32.5°	613.2	638.2	675.5	706.1	<i>715.2</i>
35°	584.9	609.9	650.6	684.7	<i>694.8</i>
37.5°	552.1	581.6	626.9	662.0	<i>674.3</i>
40°	523.9	552.1	600.9	639.3	<i>651.8</i>
42.5°	492.2	522.8	573.8	615.5	<i>630.2</i>
45°	460.5	493.3	547.6	591.8	<i>606.5</i>
47.5°	431.1	463.8	520.5	567.0	<i>581.6</i>
50°	400.6	434.5	493.3	540.8	<i>555.6</i>
52.5°	367.8	405.0	466.2	513.7	<i>530.7</i>
55°	338.3	375.6	436.7	486.5	<i>503.6</i>
57.5°	307.7	346.3	409.7	457.2	<i>473.1</i>
60°	279.5	316.8	379.2	425.4	<i>443.6</i>
62.5°	248.9	287.3	348.4	393.8	<i>410.8</i>
65°	220.6	258.0	317.9	362.1	<i>377.9</i>
67.5°	192.3	229.8	286.2	328.2	<i>346.3</i>
70°	164.0	201.5	253.4	294.2	<i>310.0</i>
72.5°	139.2	172.0	221.7	259.1	<i>273.9</i>
75°	112.1	144.9	186.6	219.4	<i>226.2</i>
77.5°	87.1	116.6	151.7	166.3	<i>168.7</i>
80°	64.4	87.1	110.9	114.3	<i>114.3</i>
82.5°	42.9	60.0	69.0	70.1	<i>69.0</i>
85°	26.0	31.6	32.8	28.3	<i>26.0</i>
87.5°	9.0	9.0	5.6	3.3	<i>1.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)