

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: P880646

Luminaire Tested: **22CZ2-20VHE-SQR-B2750-W2D-5000K**

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: P880646
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-5000K
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

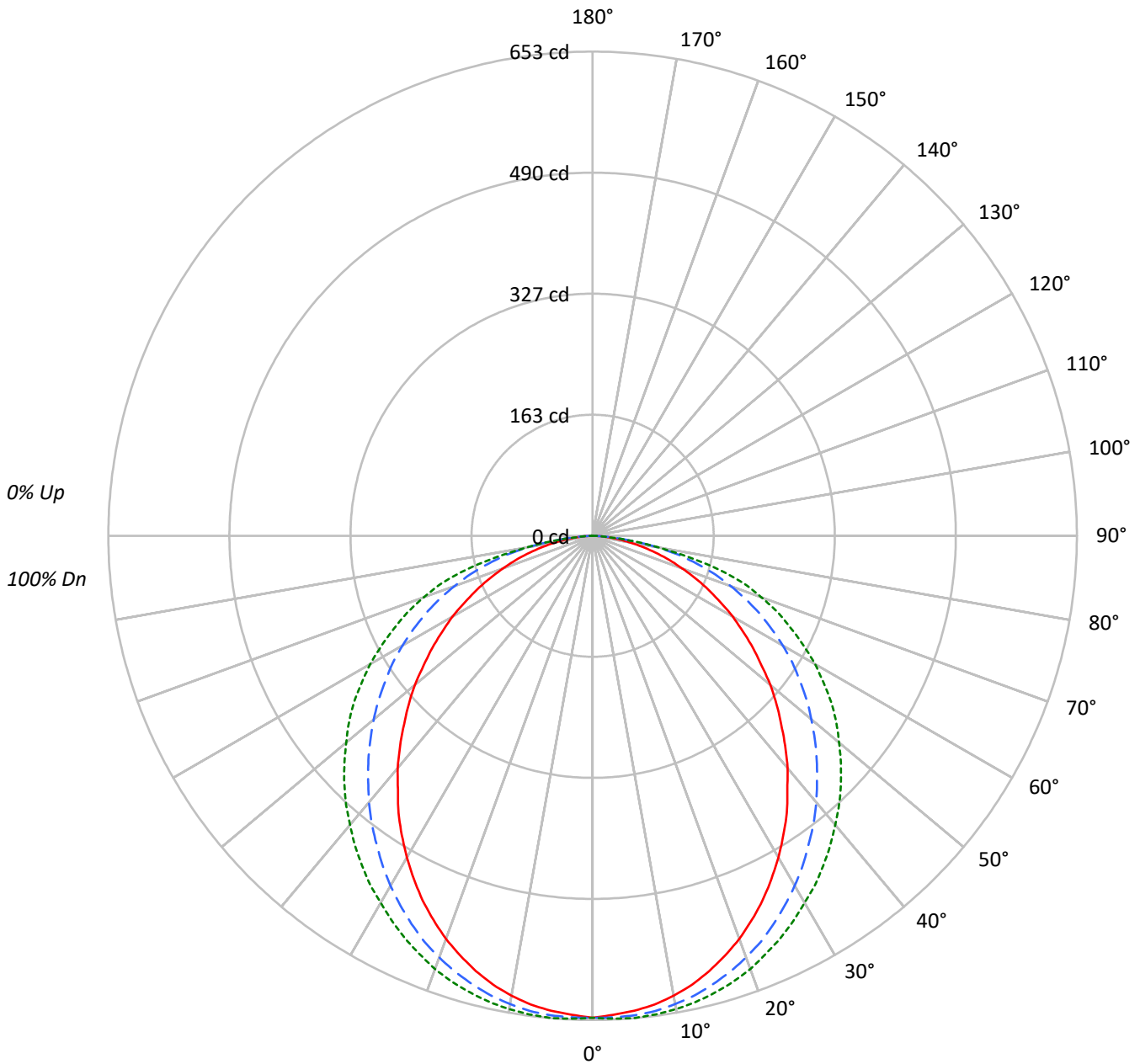
Lumens per Lamp: N/A
Luminaire Lumens: 1861.1 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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					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	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°	1845	1845	1845
5°	1832	1849	1859
10°	1815	1848	1868
15°	1785	1840	1874
20°	1747	1827	1878
25°	1698	1809	1875
30°	1641	1786	1873
35°	1582	1759	1879
40°	1515	1738	1885
45°	1443	1716	1900
50°	1380	1700	1915
55°	1307	1686	1945
60°	1238	1680	1965
65°	1156	1666	1981
70°	1062	1641	2008
75°	959	1597	1936
80°	822	1415	1458
85°	661	833	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	3.3
10°-20°	176.2	9.5
20°-30°	264.7	14.2
30°-40°	315.7	17.0
40°-50°	326.4	17.5
50°-60°	300.0	16.1
60°-70°	238.9	12.8
70°-80°	145.9	7.8
80°-90°	31.7	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°	502.5	27.0
0°-40°	818.2	44.0
0°-60°	1444.6	77.6
0°-90°	1861.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1861.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	643	645	649	652	653	61
15°	608	615	626	635	638	171
25°	542	556	578	594	599	249
35°	457	476	508	534	542	285
45°	360	385	428	462	474	278
55°	264	293	341	380	393	236
65°	172	201	248	283	295	171
75°	88	113	146	171	177	93
85°	20	25	26	22	20	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	650.1	650.1	650.1	650.1	650.1
2.5°	646.6	647.4	650.1	651.9	651.9
5°	643.0	644.8	649.2	651.9	652.8
7.5°	637.8	640.4	646.6	650.1	651.1
10°	629.8	633.4	641.3	646.6	648.3
12.5°	620.1	625.4	635.1	642.2	643.9
15°	607.8	614.8	626.2	635.1	637.8
17.5°	593.6	602.4	616.6	627.2	630.7
20°	578.5	587.4	605.1	617.4	621.8
22.5°	560.9	572.4	592.7	606.9	610.4
25°	542.4	555.6	577.7	593.6	598.9
27.5°	522.0	538.0	561.8	581.3	585.7
30°	500.8	517.6	545.0	566.2	571.5
32.5°	478.7	498.2	527.3	551.2	558.3
35°	456.6	476.1	507.9	534.5	542.4
37.5°	431.0	454.0	489.4	516.8	526.4
40°	409.0	431.0	469.1	499.1	508.8
42.5°	384.2	408.1	447.9	480.5	492.0
45°	359.5	385.1	427.5	462.0	473.5
47.5°	336.5	362.1	406.3	442.6	454.0
50°	312.7	339.2	385.1	422.2	433.7
52.5°	287.1	316.2	363.9	401.0	414.3
55°	264.1	293.2	340.9	379.8	393.1
57.5°	240.2	270.3	319.8	356.9	369.3
60°	218.2	247.3	296.0	332.1	346.3
62.5°	194.3	224.3	272.0	307.4	320.7
65°	172.2	201.4	248.2	282.7	295.0
67.5°	150.1	179.4	223.4	256.2	270.3
70°	128.0	157.3	197.8	229.7	242.0
72.5°	108.7	134.3	173.1	202.3	213.8
75°	87.5	113.1	145.7	171.3	176.6
77.5°	68.0	91.0	118.4	129.8	131.7
80°	50.3	68.0	86.6	89.2	89.2
82.5°	33.5	46.8	53.9	54.7	53.9
85°	20.3	24.7	25.6	22.1	20.3
87.5°	7.0	7.0	4.4	2.6	0.9
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)