

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: P880622

Luminaire Tested: **22CZ2-20VHE-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: P880622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474795)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20VHE-B2750-W2D-2700K
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

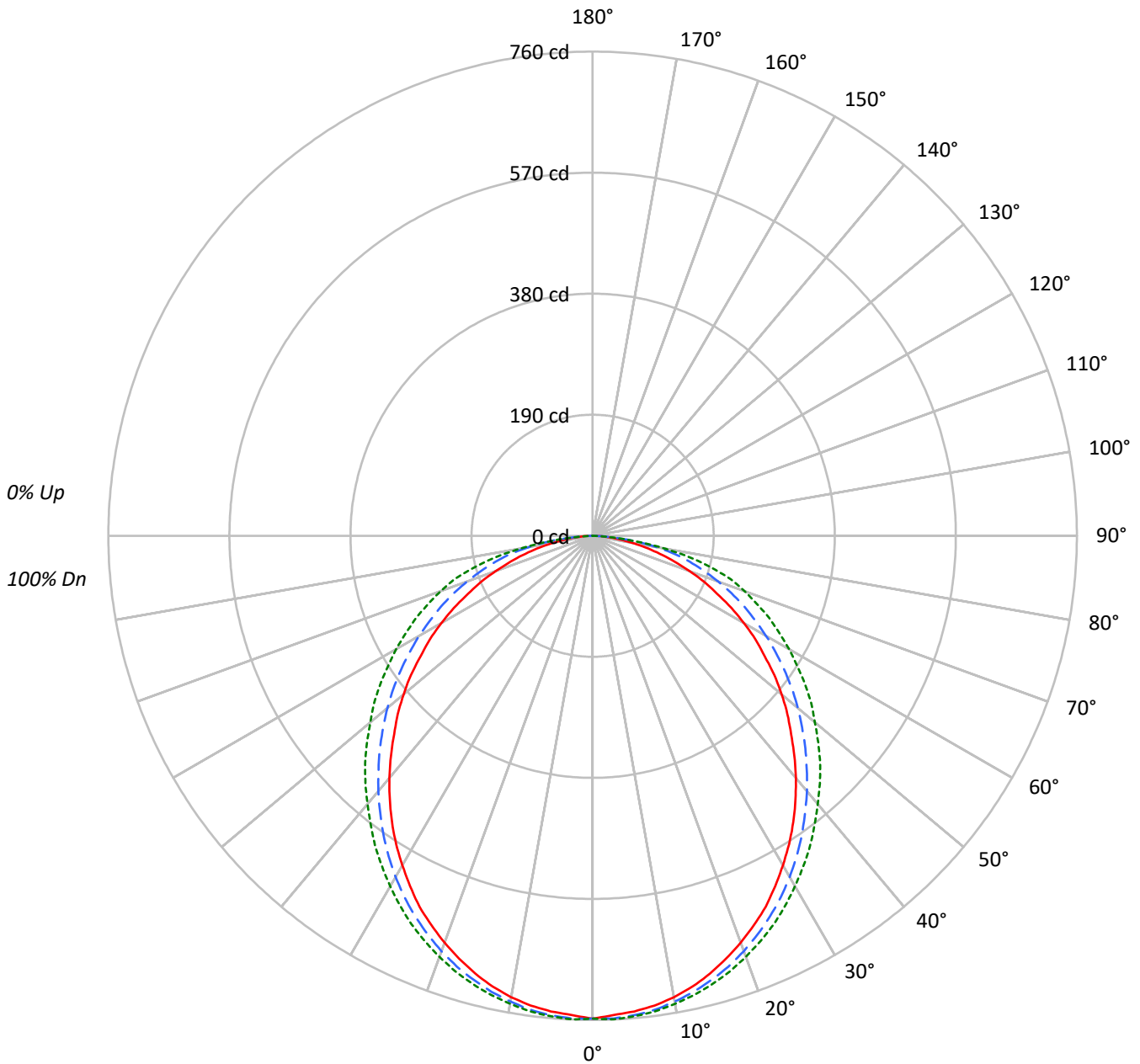
Lumens per Lamp: N/A
Luminaire Lumens: 2090.0 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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	77	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2151	2151	2151
5°	2135	2151	2157
10°	2119	2139	2149
15°	2090	2120	2139
20°	2052	2095	2123
25°	2012	2063	2106
30°	1957	2026	2081
35°	1902	1983	2061
40°	1838	1939	2035
45°	1767	1895	2026
50°	1710	1856	2010
55°	1630	1816	2014
60°	1557	1784	2020
65°	1447	1761	2053
70°	1337	1736	2103
75°	1196	1729	2116
80°	1003	1639	1847
85°	778	1123	1048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	3.4
10°-20°	203.3	9.7
20°-30°	303.1	14.5
30°-40°	357.8	17.1
40°-50°	364.7	17.4
50°-60°	328.9	15.7
60°-70°	258.5	12.4
70°-80°	161.8	7.7
80°-90°	40.4	1.9
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°	578.0	27.7
0°-40°	935.8	44.8
0°-60°	1629.3	78.0
0°-90°	2090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	750	751	755	757	757	71
15°	712	715	722	727	728	200
25°	643	648	659	669	673	295
35°	549	556	572	588	595	343
45°	440	450	472	495	505	341
55°	330	340	367	395	407	296
65°	216	229	262	292	306	215
75°	109	125	158	186	193	116
85°	24	30	34	34	32	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	758.0	758.0	758.0	758.0	758.0
2.5°	753.0	754.9	758.4	759.7	759.7
5°	749.5	751.3	755.3	757.1	757.1
7.5°	743.8	745.5	750.5	752.6	753.0
10°	735.4	737.6	742.4	746.0	746.0
12.5°	724.8	727.0	733.2	737.6	738.0
15°	711.6	714.6	721.7	727.0	728.3
17.5°	696.1	701.0	708.9	715.6	716.9
20°	679.7	684.6	693.8	701.4	703.2
22.5°	661.6	666.0	677.1	686.4	688.6
25°	642.7	647.5	659.0	669.1	672.7
27.5°	620.1	625.9	639.6	651.0	654.6
30°	597.2	604.3	618.4	631.1	635.2
32.5°	573.8	580.4	596.2	609.9	615.3
35°	549.0	556.1	572.5	588.3	595.0
37.5°	522.9	530.0	547.7	565.8	571.9
40°	496.1	504.4	523.4	542.8	549.5
42.5°	468.7	477.4	497.3	519.0	527.8
45°	440.4	450.0	472.2	495.1	504.8
47.5°	414.7	422.6	445.7	470.8	480.1
50°	387.3	394.9	420.5	445.7	455.4
52.5°	359.5	366.6	394.0	420.5	432.4
55°	329.5	339.7	367.1	395.3	407.2
57.5°	303.0	312.3	340.6	369.2	380.7
60°	274.3	284.0	314.4	343.7	356.0
62.5°	245.6	256.2	287.1	318.5	330.0
65°	215.5	228.8	262.3	291.5	305.7
67.5°	190.0	202.7	235.9	266.4	278.7
70°	161.2	176.3	209.3	240.3	253.5
72.5°	134.3	149.3	183.3	214.3	227.4
75°	109.1	125.4	157.7	185.9	193.0
77.5°	84.8	100.3	132.5	148.9	156.4
80°	61.4	76.4	100.3	111.3	113.0
82.5°	41.5	54.4	68.1	71.1	69.4
85°	23.9	30.5	34.5	34.5	32.2
87.5°	9.7	9.7	8.4	5.3	3.1
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)