

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: P880638

Luminaire Tested: **22CZ2-20VHE-S-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: P880638
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-S-B2750-W2D-3000K
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

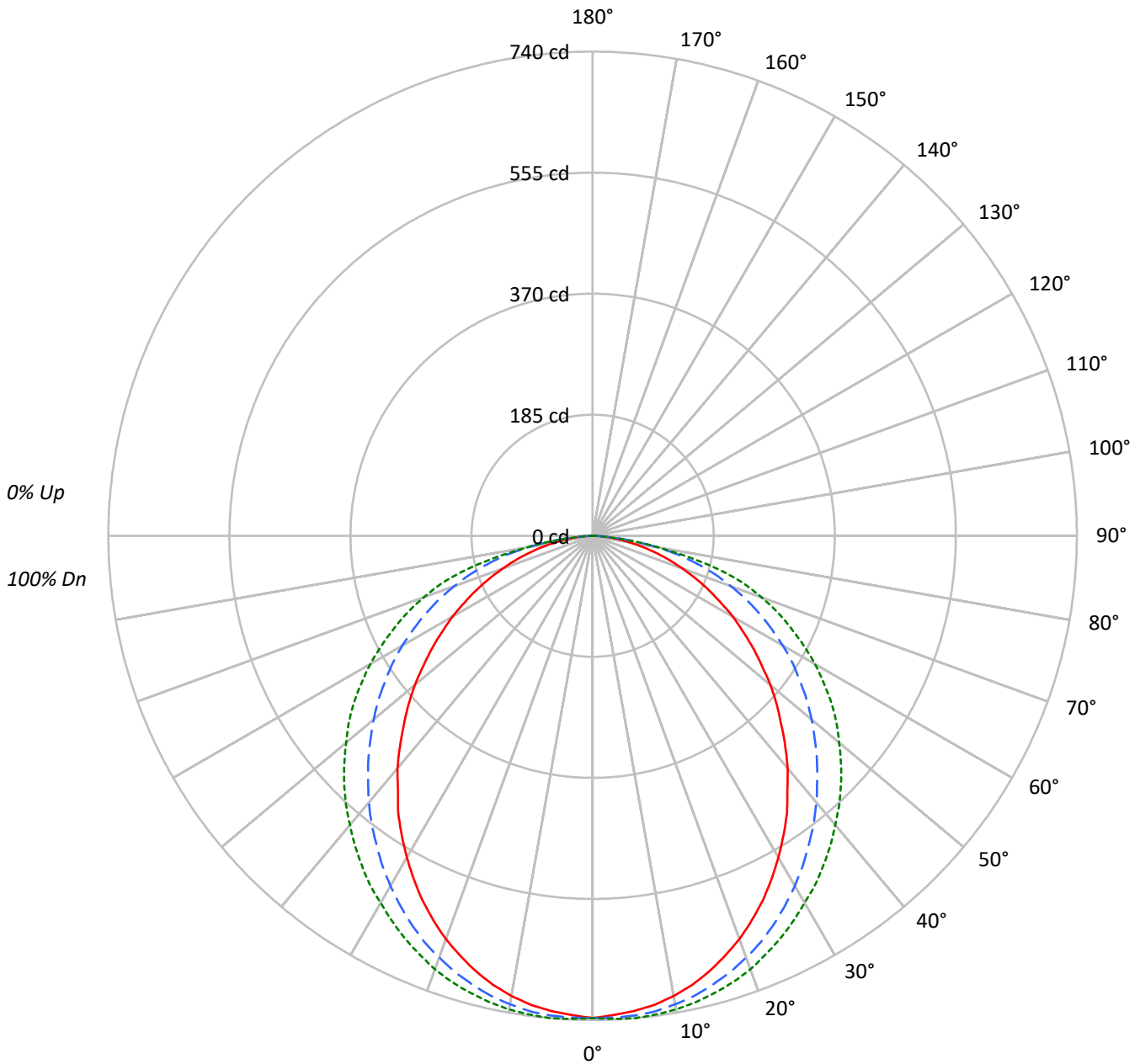
Lumens per Lamp: N/A
Luminaire Lumens: 2110.0 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2092	2092	2092
5°	2076	2096	2108
10°	2057	2095	2118
15°	2024	2086	2124
20°	1981	2071	2129
25°	1925	2051	2126
30°	1860	2025	2123
35°	1793	1995	2130
40°	1718	1970	2137
45°	1636	1945	2154
50°	1565	1927	2171
55°	1481	1912	2205
60°	1404	1905	2228
65°	1311	1889	2246
70°	1204	1861	2277
75°	1088	1811	2195
80°	931	1605	1652
85°	749	944	749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	3.3
10°-20°	199.8	9.5
20°-30°	300.1	14.2
30°-40°	357.9	17.0
40°-50°	370.0	17.5
50°-60°	340.2	16.1
60°-70°	270.8	12.8
70°-80°	165.5	7.8
80°-90°	35.9	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°	569.7	27.0
0°-40°	927.6	44.0
0°-60°	1637.8	77.6
0°-90°	2110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2110.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	729	731	736	739	740	69
15°	689	697	710	720	723	194
25°	615	630	655	673	679	283
35°	518	540	576	606	615	323
45°	408	437	485	524	537	315
55°	299	332	386	431	446	268
65°	195	228	281	320	334	193
75°	99	128	165	194	200	106
85°	23	28	29	25	23	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	737.1	737.1	737.1	737.1	737.1
2.5°	733.1	734.0	737.1	739.1	739.1
5°	729.0	731.0	736.0	739.1	740.1
7.5°	723.1	726.1	733.1	737.1	738.2
10°	714.0	718.1	727.1	733.1	735.0
12.5°	703.0	709.1	720.1	728.1	730.0
15°	689.1	697.0	710.0	720.1	723.1
17.5°	673.0	683.0	699.1	711.1	715.1
20°	655.9	666.0	686.0	700.0	705.0
22.5°	635.9	649.0	672.0	688.1	692.0
25°	615.0	629.9	655.0	673.0	679.0
27.5°	591.8	610.0	636.9	659.1	664.0
30°	567.8	586.8	617.9	641.9	647.9
32.5°	542.7	564.8	597.8	624.9	633.0
35°	517.7	539.8	575.8	606.0	615.0
37.5°	488.7	514.7	554.9	585.9	596.8
40°	463.7	488.7	531.8	565.9	576.9
42.5°	435.6	462.7	507.8	544.8	557.8
45°	407.6	436.6	484.7	523.8	536.8
47.5°	381.5	410.5	460.6	501.8	514.7
50°	354.5	384.6	436.6	478.7	491.7
52.5°	325.5	358.5	412.6	454.6	469.7
55°	299.4	332.4	386.5	430.6	445.7
57.5°	272.3	306.5	362.6	404.6	418.7
60°	247.4	280.4	335.6	376.5	392.6
62.5°	220.3	254.3	308.4	348.5	363.6
65°	195.2	228.3	281.4	320.5	334.5
67.5°	170.2	203.4	253.3	290.5	306.5
70°	145.1	178.3	224.3	260.4	274.4
72.5°	123.2	152.3	196.3	229.4	242.4
75°	99.2	128.2	165.2	194.2	200.2
77.5°	77.1	103.2	134.2	147.2	149.3
80°	57.0	77.1	98.2	101.1	101.1
82.5°	38.0	53.1	61.1	62.0	61.1
85°	23.0	28.0	29.0	25.1	23.0
87.5°	7.9	7.9	5.0	2.9	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)