

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: P842900

Luminaire Tested: **22CZ2-20HE-SQR-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842900
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: 22CZ2-20HE-SQR-UNV-B40
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

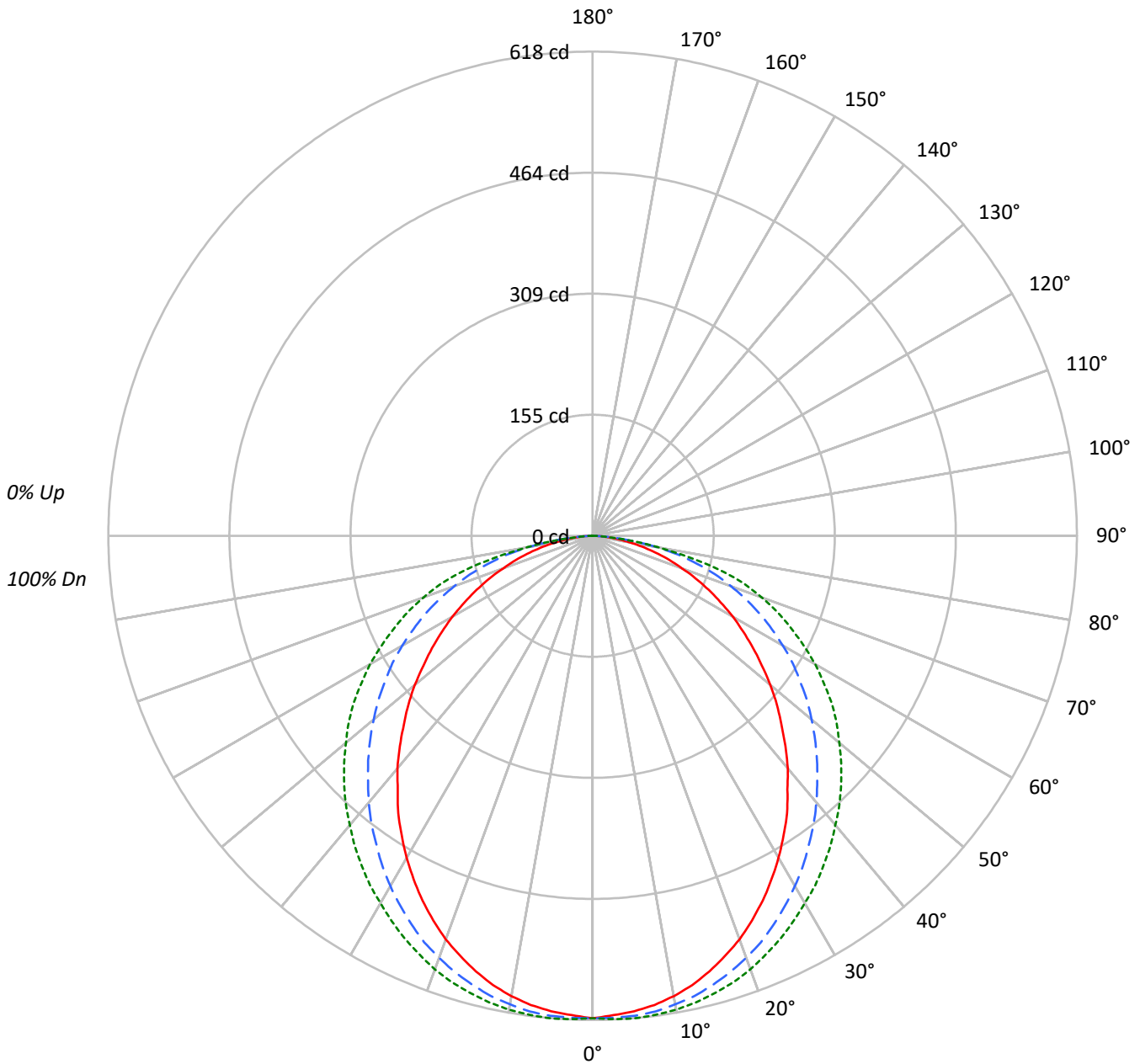
Lumens per Lamp: N/A
Luminaire Lumens: 1763.0 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1747	1747	1747
5°	1735	1752	1761
10°	1719	1750	1769
15°	1691	1743	1775
20°	1655	1731	1779
25°	1608	1713	1776
30°	1555	1692	1774
35°	1499	1667	1779
40°	1435	1646	1785
45°	1367	1625	1800
50°	1308	1610	1814
55°	1238	1598	1842
60°	1173	1591	1861
65°	1096	1579	1877
70°	1007	1555	1902
75°	909	1514	1834
80°	779	1340	1382
85°	628	791	628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	3.3
10°-20°	166.9	9.5
20°-30°	250.7	14.2
30°-40°	299.0	17.0
40°-50°	309.1	17.5
50°-60°	284.2	16.1
60°-70°	226.3	12.8
70°-80°	138.3	7.8
80°-90°	30.1	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°	476.0	27.0
0°-40°	775.0	44.0
0°-60°	1368.4	77.6
0°-90°	1763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1763.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	616	616	616	616	616	
5°	609	611	615	618	618	58
15°	576	582	593	602	604	162
25°	514	526	547	562	567	236
35°	433	451	481	506	514	270
45°	341	365	405	438	448	263
55°	250	278	323	360	372	224
65°	163	191	235	268	280	162
75°	83	107	138	162	167	88
85°	19	23	24	21	19	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	615.8	615.8	615.8	615.8	615.8
2.5°	612.5	613.4	615.8	617.5	617.5
5°	609.1	610.8	615.0	617.5	618.4
7.5°	604.1	606.7	612.5	615.8	616.7
10°	596.6	600.0	607.4	612.5	614.1
12.5°	587.4	592.4	601.6	608.3	610.0
15°	575.6	582.3	593.3	601.6	604.1
17.5°	562.3	570.6	584.0	594.1	597.4
20°	548.1	556.5	573.2	584.9	589.0
22.5°	531.4	542.2	561.5	574.9	578.2
25°	513.7	526.3	547.2	562.3	567.3
27.5°	494.5	509.6	532.1	550.5	554.8
30°	474.5	490.3	516.3	536.4	541.4
32.5°	453.5	471.9	499.6	522.1	528.8
35°	432.6	451.0	481.2	506.3	513.7
37.5°	408.3	430.1	463.5	489.5	498.7
40°	387.4	408.3	444.3	472.8	481.9
42.5°	364.0	386.6	424.3	455.2	466.1
45°	340.6	364.8	405.0	437.6	448.5
47.5°	318.8	343.0	384.9	419.2	430.1
50°	296.2	321.3	364.8	399.9	410.9
52.5°	272.0	299.5	344.7	379.9	392.5
55°	250.2	277.8	323.0	359.8	372.4
57.5°	227.6	256.0	302.9	338.0	349.7
60°	206.7	234.3	280.3	314.6	328.0
62.5°	184.1	212.5	257.7	291.2	303.8
65°	163.2	190.8	235.2	267.7	279.5
67.5°	142.2	169.9	211.7	242.6	256.0
70°	121.4	148.9	187.4	217.5	229.3
72.5°	103.0	127.2	164.0	191.7	202.5
75°	82.9	107.1	138.1	162.3	167.3
77.5°	64.5	86.2	112.1	123.0	124.7
80°	47.7	64.5	82.0	84.6	84.6
82.5°	31.8	44.4	51.1	51.9	51.1
85°	19.3	23.4	24.3	21.0	19.3
87.5°	6.7	6.7	4.2	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)