

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: P842901

Luminaire Tested: **22CZ2-20HE-SQR-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842901
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-B50
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

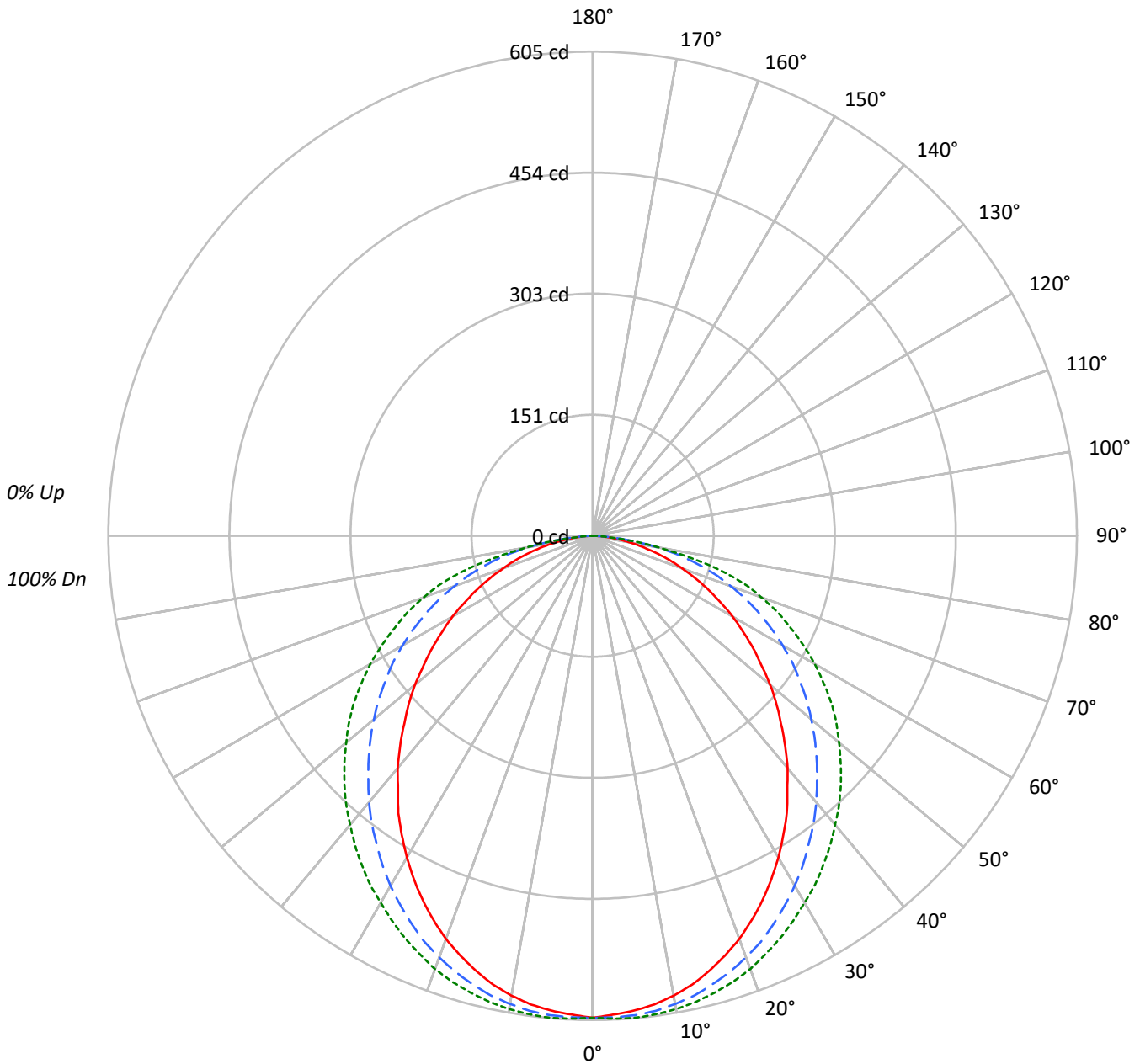
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1724.0 lumens
Efficiency: N/A
Efficacy: 107.8 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 (A_{in}): 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°	1709	1709	1709
5°	1696	1713	1722
10°	1681	1711	1730
15°	1654	1704	1735
20°	1619	1693	1739
25°	1573	1675	1737
30°	1520	1654	1735
35°	1466	1630	1740
40°	1403	1609	1746
45°	1337	1589	1760
50°	1278	1575	1774
55°	1211	1562	1801
60°	1147	1556	1820
65°	1072	1544	1835
70°	985	1521	1860
75°	889	1481	1794
80°	763	1311	1351
85°	615	775	615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	3.3
10°-20°	163.2	9.5
20°-30°	245.2	14.2
30°-40°	292.4	17.0
40°-50°	302.3	17.5
50°-60°	277.9	16.1
60°-70°	221.3	12.8
70°-80°	135.2	7.8
80°-90°	29.4	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°	465.5	27.0
0°-40°	757.9	44.0
0°-60°	1338.1	77.6
0°-90°	1724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	596	597	601	604	605	56
15°	563	570	580	588	591	159
25°	502	515	535	550	555	231
35°	423	441	470	495	502	264
45°	333	357	396	428	438	258
55°	245	272	316	352	364	219
65°	160	186	230	262	273	158
75°	81	105	135	159	164	86
85°	19	23	24	20	19	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	602.2	602.2	602.2	602.2	602.2
2.5°	598.9	599.8	602.2	603.8	603.8
5°	595.6	597.3	601.4	603.8	604.7
7.5°	590.7	593.2	598.9	602.2	603.1
10°	583.4	586.7	594.0	598.9	600.5
12.5°	574.4	579.3	588.3	594.9	596.5
15°	562.9	569.5	580.1	588.3	590.7
17.5°	549.8	558.0	571.1	580.9	584.2
20°	536.0	544.1	560.5	572.0	576.0
22.5°	519.6	530.2	549.1	562.1	565.4
25°	502.4	514.7	535.1	549.8	554.7
27.5°	483.6	498.3	520.4	538.4	542.5
30°	464.0	479.5	504.9	524.5	529.4
32.5°	443.5	461.5	488.5	510.5	517.1
35°	423.1	441.1	470.5	495.1	502.4
37.5°	399.3	420.5	453.3	478.7	487.6
40°	378.9	399.3	434.5	462.3	471.3
42.5°	356.0	378.0	414.9	445.1	455.8
45°	333.1	356.7	396.0	428.0	438.5
47.5°	311.8	335.5	376.4	410.0	420.5
50°	289.6	314.2	356.7	391.1	401.8
52.5°	266.0	292.9	337.1	371.5	383.8
55°	244.7	271.6	315.8	351.8	364.1
57.5°	222.5	250.4	296.2	330.5	342.0
60°	202.1	229.1	274.1	307.6	320.7
62.5°	180.0	207.8	252.0	284.7	297.1
65°	159.6	186.5	230.0	261.8	273.3
67.5°	139.1	166.1	207.1	237.3	250.4
70°	118.7	145.6	183.3	212.7	224.2
72.5°	100.7	124.4	160.4	187.4	198.0
75°	81.1	104.7	135.1	158.7	163.6
77.5°	63.1	84.3	109.6	120.3	122.0
80°	46.7	63.1	80.2	82.7	82.7
82.5°	31.1	43.4	50.0	50.7	50.0
85°	18.9	22.9	23.8	20.5	18.9
87.5°	6.5	6.5	4.1	2.5	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)