

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: P842976

Luminaire Tested: **22CZ2-44HE-SQR-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842976
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: 22CZ2-44HE-SQR-UNV-B50
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

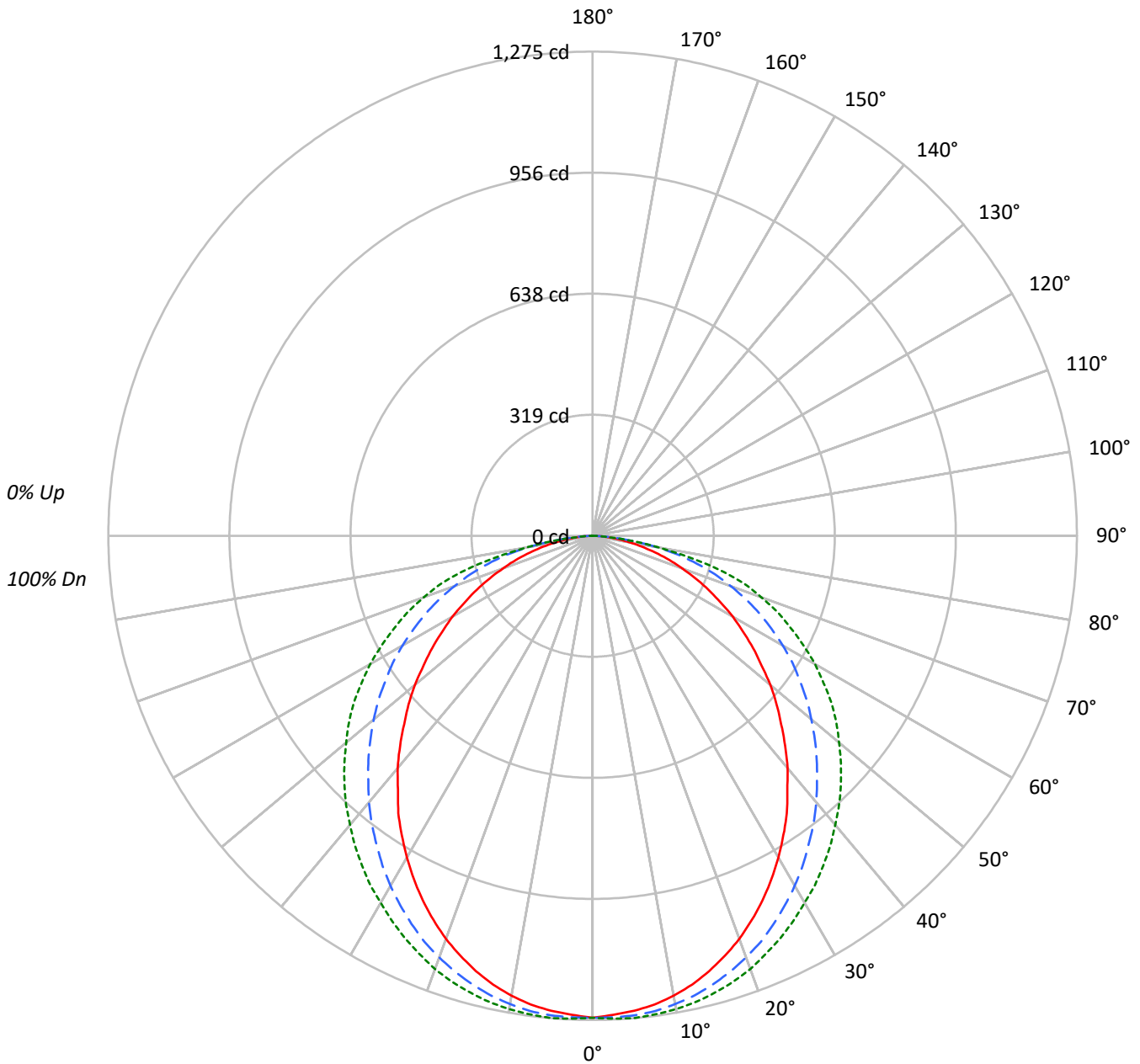
Lumens per Lamp: N/A
Luminaire Lumens: 3634.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
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°	3602	3602	3602
5°	3576	3611	3631
10°	3543	3608	3647
15°	3486	3592	3658
20°	3412	3568	3666
25°	3315	3531	3661
30°	3204	3487	3657
35°	3089	3436	3668
40°	2958	3393	3680
45°	2817	3350	3710
50°	2695	3319	3739
55°	2552	3293	3797
60°	2418	3280	3837
65°	2259	3254	3867
70°	2076	3205	3921
75°	1874	3121	3781
80°	1608	2762	2848
85°	1296	1631	1296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	3.3
10°-20°	344.1	9.5
20°-30°	516.8	14.2
30°-40°	616.3	17.0
40°-50°	637.2	17.5
50°-60°	585.9	16.1
60°-70°	466.4	12.8
70°-80°	285.0	7.8
80°-90°	62.0	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°	981.2	27.0
0°-40°	1597.5	44.0
0°-60°	2820.6	77.6
0°-90°	3634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1256	1259	1268	1273	1275	119
15°	1187	1200	1223	1240	1245	334
25°	1059	1085	1128	1159	1169	487
35°	892	930	992	1044	1059	556
45°	702	752	835	902	924	543
55°	516	573	666	742	768	461
65°	336	393	485	552	576	333
75°	171	221	285	335	345	182
85°	40	48	50	43	40	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.3	1269.3	1269.3	1269.3	1269.3
2.5°	1262.4	1264.3	1269.3	1272.8	1272.8
5°	1255.5	1259.0	1267.7	1272.8	1274.6
7.5°	1245.2	1250.5	1262.4	1269.3	1271.2
10°	1229.8	1236.7	1252.1	1262.4	1265.9
12.5°	1210.7	1221.0	1240.1	1253.9	1257.4
15°	1186.6	1200.3	1222.9	1240.1	1245.2
17.5°	1159.0	1176.2	1203.8	1224.5	1231.4
20°	1129.8	1147.0	1181.5	1205.6	1214.1
22.5°	1095.3	1117.6	1157.3	1184.9	1191.8
25°	1058.9	1084.9	1127.9	1159.0	1169.3
27.5°	1019.4	1050.4	1096.9	1134.8	1143.6
30°	978.0	1010.6	1064.2	1105.6	1116.0
32.5°	934.8	972.7	1029.7	1076.2	1090.0
35°	891.8	929.7	991.8	1043.5	1058.9
37.5°	841.6	886.5	955.5	1009.0	1027.9
40°	798.6	841.6	915.9	974.5	993.4
42.5°	750.3	796.8	874.5	938.2	960.7
45°	702.0	751.9	834.7	902.1	924.4
47.5°	657.2	707.1	793.3	864.2	886.5
50°	610.5	662.3	751.9	824.4	846.9
52.5°	560.6	617.4	710.6	783.0	809.0
55°	515.8	572.6	665.7	741.6	767.6
57.5°	469.1	527.7	624.3	696.8	720.9
60°	426.1	482.9	577.9	648.5	676.1
62.5°	379.4	438.1	531.2	600.2	626.2
65°	336.4	393.2	484.7	551.9	576.0
67.5°	293.2	350.2	436.4	500.1	527.7
70°	250.2	307.0	386.3	448.4	472.6
72.5°	212.2	262.1	338.0	395.1	417.4
75°	170.9	220.8	284.7	334.6	344.9
77.5°	132.9	177.8	231.1	253.6	257.1
80°	98.4	132.9	169.0	174.3	174.3
82.5°	65.5	91.5	105.3	106.9	105.3
85°	39.8	48.3	50.1	43.2	39.8
87.5°	13.8	13.8	8.7	5.3	1.8
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)