

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: P842975

Luminaire Tested: **22CZ2-44HE-SQR-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842975  
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-B40  
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

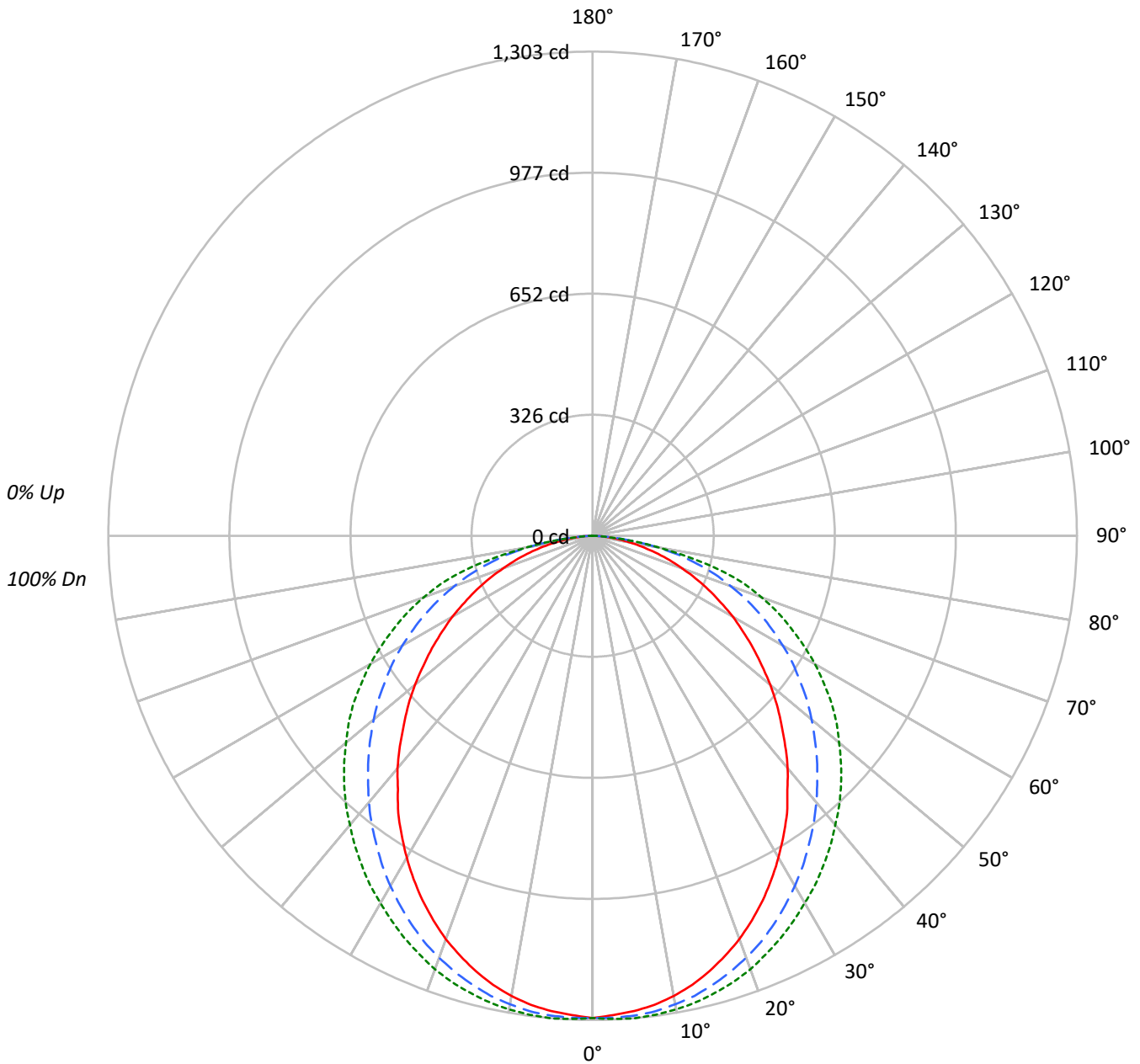
Lumens per Lamp: N/A  
Luminaire Lumens: 3716.0 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 36  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	3683	3683	3683
5°	3657	3692	3713
10°	3623	3689	3730
15°	3564	3674	3740
20°	3488	3648	3749
25°	3390	3611	3744
30°	3277	3565	3739
35°	3159	3513	3751
40°	3025	3469	3763
45°	2881	3425	3793
50°	2756	3394	3823
55°	2609	3367	3883
60°	2473	3353	3923
65°	2310	3328	3955
70°	2122	3277	4009
75°	1915	3191	3867
80°	1644	2824	2912
85°	1325	1670	1325



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.1	3.3
10°-20°	351.8	9.5
20°-30°	528.4	14.2
30°-40°	630.2	17.0
40°-50°	651.6	17.5
50°-60°	599.1	16.1
60°-70°	476.9	12.8
70°-80°	291.4	7.8
80°-90°	63.4	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°	1003.3	27.0
0°-40°	1633.6	44.0
0°-60°	2884.2	77.6
0°-90°	3716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3716.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1284	1287	1296	1302	1303	122
15°	1213	1227	1250	1268	1273	342
25°	1083	1109	1153	1185	1196	498
35°	912	951	1014	1067	1083	569
45°	718	769	854	922	945	555
55°	527	586	681	758	785	472
65°	344	402	496	564	589	341
75°	175	226	291	342	353	186
85°	41	49	51	44	41	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1298.0	1298.0	1298.0	1298.0	1298.0
2.5°	1290.9	1292.8	1298.0	1301.5	1301.5
5°	1283.9	1287.4	1296.3	1301.5	1303.4
7.5°	1273.3	1278.7	1290.9	1298.0	1299.9
10°	1257.5	1264.6	1280.3	1290.9	1294.5
12.5°	1238.0	1248.6	1268.1	1282.2	1285.8
15°	1213.3	1227.4	1250.5	1268.1	1273.3
17.5°	1185.1	1202.7	1231.0	1252.1	1259.2
20°	1155.2	1172.9	1208.2	1232.8	1241.5
22.5°	1120.0	1142.8	1183.5	1211.7	1218.7
25°	1082.8	1109.4	1153.4	1185.1	1195.7
27.5°	1042.4	1074.1	1121.6	1160.4	1169.4
30°	1000.1	1033.4	1088.2	1130.6	1141.1
32.5°	955.8	994.6	1053.0	1100.5	1114.6
35°	911.9	950.7	1014.2	1067.1	1082.8
37.5°	860.6	906.5	977.0	1031.8	1051.1
40°	816.6	860.6	936.6	996.5	1015.8
42.5°	767.3	814.8	894.2	959.4	982.4
45°	717.9	768.9	853.6	922.5	945.3
47.5°	672.0	723.1	811.2	883.7	906.5
50°	624.3	677.2	768.9	843.0	866.0
52.5°	573.3	631.4	726.6	800.7	827.2
55°	527.4	585.5	680.7	758.3	784.9
57.5°	479.7	539.6	638.4	712.5	737.2
60°	435.7	493.8	590.9	663.1	691.3
62.5°	388.0	447.9	543.2	613.7	640.3
65°	344.0	402.1	495.7	564.3	589.0
67.5°	299.8	358.1	446.3	511.4	539.6
70°	255.8	313.9	395.0	458.5	483.2
72.5°	217.0	268.1	345.7	404.0	426.8
75°	174.7	225.7	291.1	342.1	352.7
77.5°	135.9	181.8	236.3	259.4	262.9
80°	100.6	135.9	172.8	178.2	178.2
82.5°	67.0	93.6	107.7	109.3	107.7
85°	40.7	49.4	51.3	44.2	40.7
87.5°	14.1	14.1	8.9	5.4	1.9
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)