

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: P842916

Luminaire Tested: **22CZ2-24HE-SQR-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842916  
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: 22CZ2-24HE-SQR-UNV-B50  
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

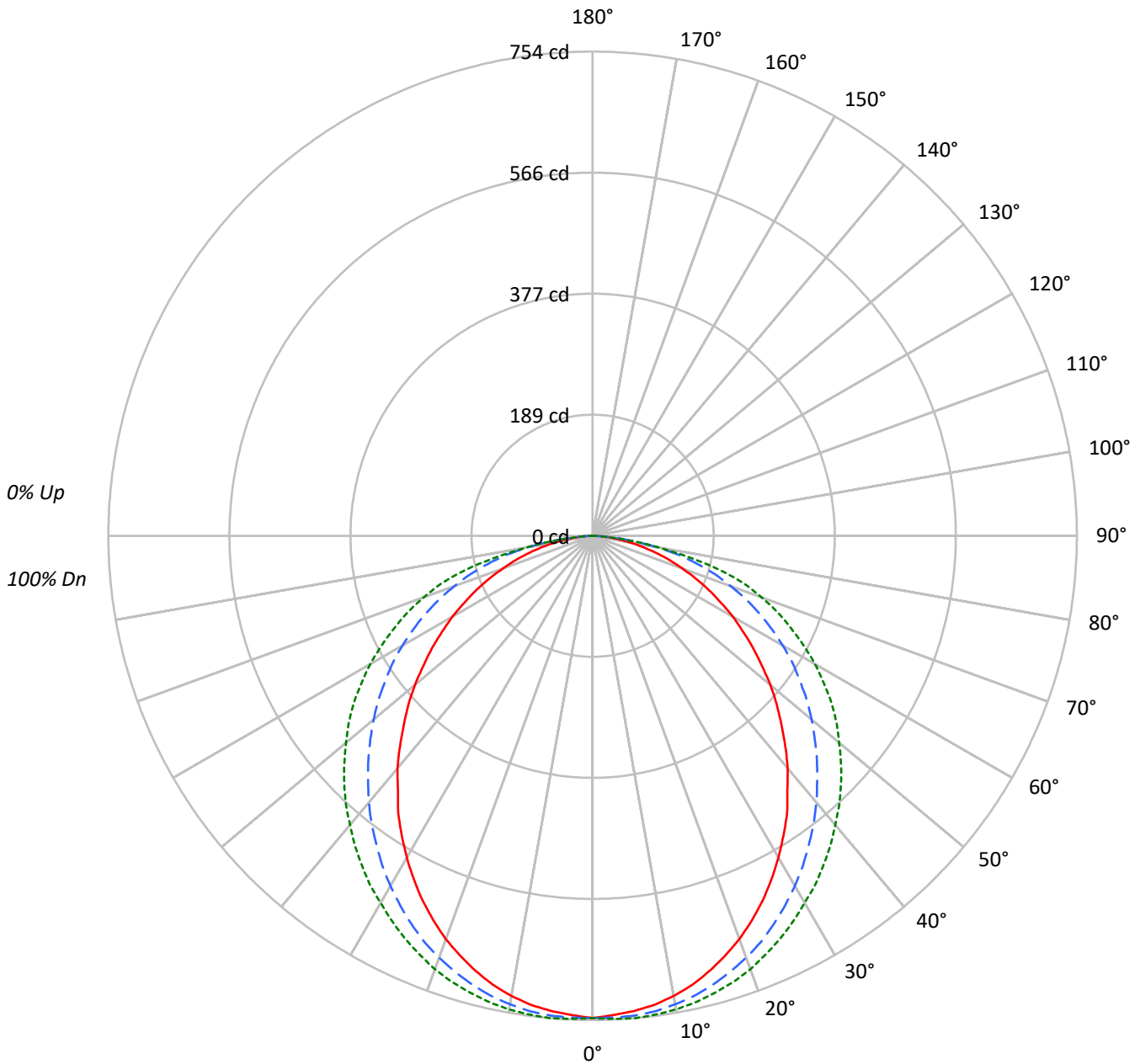
Lumens per Lamp: N/A  
Luminaire Lumens: 2150.0 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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°	2131	2131	2131
5°	2116	2136	2148
10°	2096	2134	2158
15°	2062	2125	2164
20°	2018	2111	2169
25°	1961	2089	2166
30°	1896	2063	2163
35°	1828	2033	2170
40°	1750	2007	2177
45°	1667	1982	2195
50°	1594	1964	2212
55°	1510	1949	2246
60°	1431	1940	2270
65°	1336	1926	2288
70°	1228	1897	2320
75°	1108	1846	2238
80°	951	1634	1685
85°	765	967	765



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.2	3.3
10°-20°	203.6	9.5
20°-30°	305.7	14.2
30°-40°	364.6	17.0
40°-50°	377.0	17.5
50°-60°	346.6	16.1
60°-70°	275.9	12.8
70°-80°	168.6	7.8
80°-90°	36.7	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°	580.5	27.0
0°-40°	945.1	44.0
0°-60°	1668.8	77.6
0°-90°	2150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2150.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	743	745	750	753	754	70
15°	702	710	724	734	737	198
25°	626	642	667	686	692	288
35°	528	550	587	617	626	329
45°	415	445	494	534	547	321
55°	305	339	394	439	454	273
65°	199	233	287	326	341	197
75°	101	131	168	198	204	108
85°	24	29	30	26	24	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	751.0	751.0	751.0	751.0	751.0
2.5°	746.9	748.0	751.0	753.0	753.0
5°	742.8	744.9	750.0	753.0	754.1
7.5°	736.7	739.8	746.9	751.0	752.1
10°	727.6	731.7	740.8	746.9	748.9
12.5°	716.3	722.4	733.7	741.9	743.9
15°	702.0	710.2	723.5	733.7	736.7
17.5°	685.7	695.9	712.2	724.5	728.5
20°	668.4	678.6	699.0	713.3	718.3
22.5°	648.0	661.2	684.7	701.1	705.1
25°	626.5	641.9	667.3	685.7	691.8
27.5°	603.1	621.5	648.9	671.4	676.6
30°	578.6	597.9	629.6	654.1	660.2
32.5°	553.0	575.5	609.2	636.7	644.9
35°	527.6	550.0	586.8	617.4	626.5
37.5°	497.9	524.5	565.3	597.0	608.1
40°	472.5	497.9	541.9	576.6	587.7
42.5°	443.9	471.4	517.4	555.1	568.4
45°	415.4	444.9	493.9	533.7	546.9
47.5°	388.8	418.3	469.4	511.3	524.5
50°	361.2	391.8	444.9	487.7	501.1
52.5°	331.7	365.3	420.4	463.2	478.6
55°	305.2	338.8	393.9	438.8	454.1
57.5°	277.5	312.2	369.4	412.2	426.5
60°	252.1	285.7	341.9	383.7	400.0
62.5°	224.5	259.2	314.3	355.1	370.5
65°	199.0	232.6	286.8	326.5	340.8
67.5°	173.5	207.2	258.2	295.9	312.2
70°	148.0	181.6	228.6	265.3	279.6
72.5°	125.6	155.1	200.0	233.7	246.9
75°	101.1	130.6	168.4	197.9	204.1
77.5°	78.6	105.2	136.7	150.1	152.1
80°	58.2	78.6	100.0	103.1	103.1
82.5°	38.8	54.1	62.3	63.3	62.3
85°	23.5	28.6	29.7	25.6	23.5
87.5°	8.2	8.2	5.2	3.1	1.1
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)