

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: P731979

Luminaire Tested: **22CZ2-24HE-S-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272009)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-24HE-S-B2750-W2D-4000K  
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

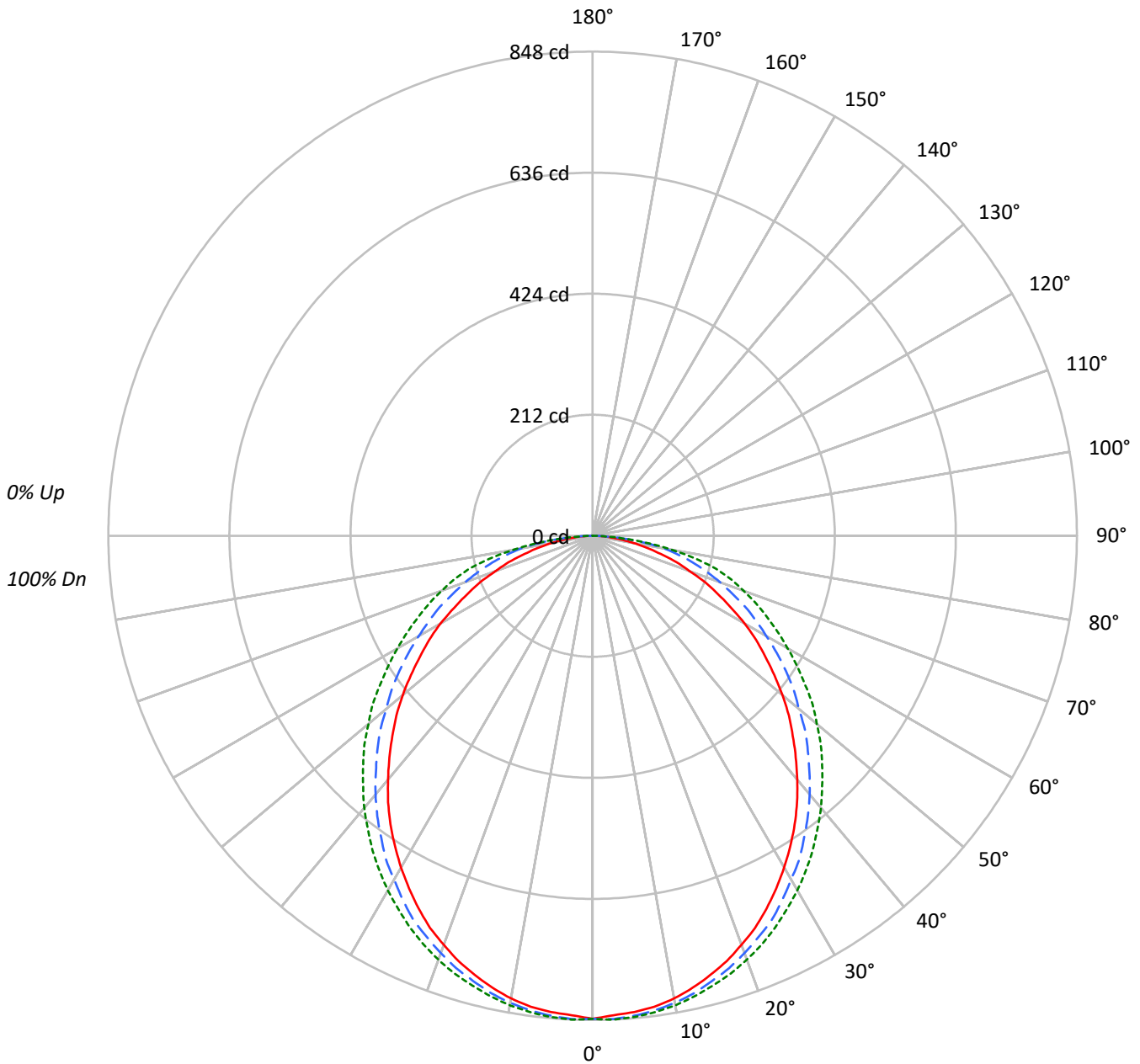
Lumens per Lamp: N/A  
Luminaire Lumens: 2361.0 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	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	69	60	54	66	59	53	64	57	52	61	56	52	49																			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43																			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37																			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2401	2401	2401
5°	2385	2403	2410
10°	2371	2393	2406
15°	2340	2372	2395
20°	2302	2348	2385
25°	2255	2325	2369
30°	2198	2277	2350
35°	2137	2236	2328
40°	2065	2191	2305
45°	1989	2139	2281
50°	1916	2081	2262
55°	1826	2044	2245
60°	1744	1994	2238
65°	1628	1982	2263
70°	1499	1965	2330
75°	1352	1992	2453
80°	1170	2052	2304
85°	967	1719	1719



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.0	3.4
10°-20°	227.7	9.6
20°-30°	340.7	14.4
30°-40°	403.5	17.1
40°-50°	411.2	17.4
50°-60°	368.5	15.6
60°-70°	288.5	12.2
70°-80°	186.1	7.9
80°-90°	55.0	2.3
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°	648.4	27.5
0°-40°	1051.8	44.6
0°-60°	1831.5	77.6
0°-90°	2361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2361.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	837	839	844	845	846	79
15°	796	801	807	814	815	225
25°	720	727	742	752	757	332
35°	617	625	646	665	672	386
45°	496	507	533	561	568	383
55°	369	381	413	442	454	331
65°	242	257	295	324	337	241
75°	123	142	182	213	224	132
85°	30	41	53	53	53	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	846.0	846.0	846.0	846.0	846.0
2.5°	840.5	842.7	847.1	848.3	848.3
5°	837.3	839.4	843.8	845.0	846.0
7.5°	831.7	832.8	838.3	840.5	841.6
10°	822.9	825.1	830.6	833.9	835.0
12.5°	810.7	814.0	820.7	825.1	826.2
15°	796.5	800.9	807.4	814.0	815.2
17.5°	781.0	785.5	794.3	802.0	804.2
20°	762.3	767.8	777.7	786.6	789.9
22.5°	743.5	747.9	760.1	771.2	774.5
25°	720.4	727.1	742.5	752.4	756.8
27.5°	696.2	703.9	719.4	732.5	736.9
30°	670.9	678.6	695.1	711.7	717.1
32.5°	644.4	653.3	673.1	689.6	695.1
35°	616.9	624.6	645.6	665.4	672.0
37.5°	588.2	594.9	619.2	640.0	646.6
40°	557.4	566.2	591.5	615.8	622.3
42.5°	526.5	536.5	561.8	588.2	594.9
45°	495.7	506.7	533.1	560.7	568.4
47.5°	466.0	474.7	504.6	531.0	542.0
50°	434.0	442.9	471.5	501.3	512.3
52.5°	400.9	413.1	443.9	472.6	485.7
55°	369.1	381.1	413.1	441.8	453.9
57.5°	339.3	349.1	382.2	411.9	424.1
60°	307.3	316.2	351.4	383.4	394.4
62.5°	273.2	286.3	322.7	352.5	365.7
65°	242.4	256.6	295.2	323.9	337.1
67.5°	213.7	226.9	264.4	295.2	309.6
70°	180.7	198.3	236.8	267.6	280.9
72.5°	154.3	169.7	209.4	240.1	254.5
75°	123.3	142.0	181.7	212.7	223.7
77.5°	98.1	116.8	154.3	178.4	184.0
80°	71.6	90.3	125.6	137.7	141.0
82.5°	48.5	66.1	90.3	93.6	94.8
85°	29.7	40.8	52.8	52.8	52.8
87.5°	14.3	16.5	18.7	17.7	17.7
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)