

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: P842918

Luminaire Tested: **22CZ2-24HE-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842918  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P271965)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-24HE-UNV-B40  
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

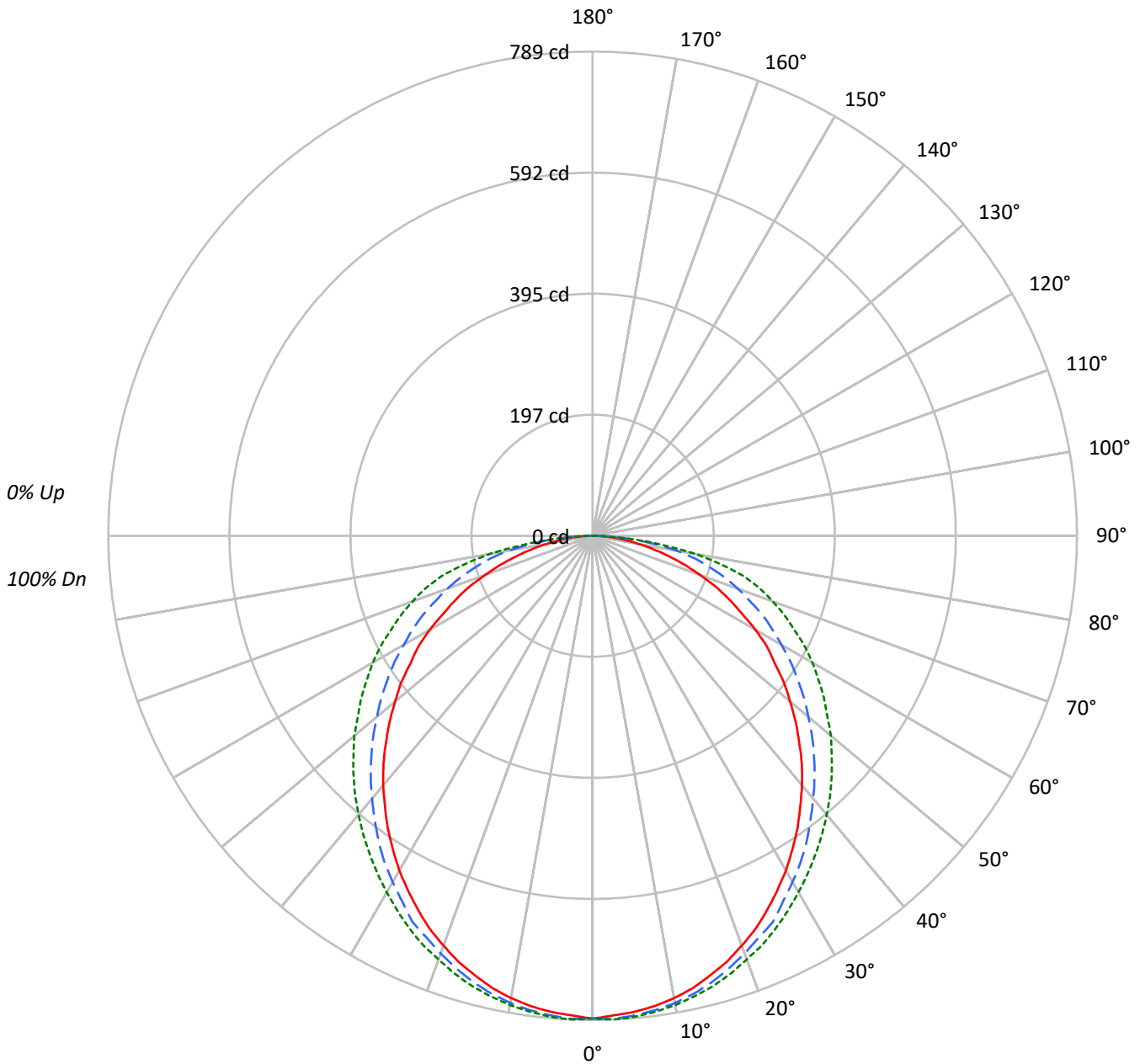
Lumens per Lamp: N/A  
Luminaire Lumens: 2314.0 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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					20					
RC	80					70					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	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	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82								
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68								
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56								
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48								
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41								
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36								
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32								
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28								
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25								
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23								

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

	0°	45°	90°
0°	2233	2233	2233
5°	2218	2235	2241
10°	2204	2228	2237
15°	2177	2211	2231
20°	2145	2187	2218
25°	2107	2175	2210
30°	2063	2134	2198
35°	2015	2106	2193
40°	1965	2071	2197
45°	1910	2047	2211
50°	1854	2025	2237
55°	1791	2017	2275
60°	1738	2016	2346
65°	1651	2049	2431
70°	1541	2087	2588
75°	1411	2160	2797
80°	1229	2252	2753
85°	1078	2002	2188



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.4	3.2
10°-20°	211.9	9.2
20°-30°	318.2	13.7
30°-40°	380.2	16.4
40°-50°	395.3	17.1
50°-60°	366.4	15.8
60°-70°	300.5	13.0
70°-80°	203.2	8.8
80°-90°	63.9	2.8
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°	604.5	26.1
0°-40°	984.7	42.6
0°-60°	1746.4	75.5
0°-90°	2314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2314.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	787	787	787	787	787	
5°	779	780	784	786	787	74
15°	741	745	753	757	760	209
25°	673	679	695	702	706	310
35°	582	590	608	626	633	364
45°	476	485	510	540	551	368
55°	362	374	408	444	460	325
65°	246	260	305	345	362	243
75°	129	150	197	237	255	136
85°	33	46	62	68	67	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	786.8	786.8	786.8	786.8	786.8
2.5°	782.3	784.5	787.9	789.1	789.1
5°	778.8	779.9	784.5	785.7	786.8
7.5°	773.1	775.4	779.9	781.2	782.3
10°	765.1	767.4	773.1	775.4	776.5
12.5°	754.9	757.1	764.0	767.4	768.5
15°	741.2	744.7	752.6	757.1	759.5
17.5°	727.6	730.9	739.0	745.8	748.1
20°	710.5	718.5	724.2	733.3	734.4
22.5°	693.5	698.0	708.2	717.4	721.9
25°	672.9	678.7	694.6	702.5	706.0
27.5°	651.4	659.3	671.8	684.3	688.8
30°	629.7	635.3	651.4	666.0	670.7
32.5°	605.8	613.8	630.8	645.6	652.5
35°	581.8	589.7	608.0	626.2	633.1
37.5°	555.7	564.8	583.0	604.6	613.8
40°	530.6	537.5	559.0	585.2	593.2
42.5°	504.4	512.4	535.1	563.7	572.7
45°	476.0	485.1	510.2	539.7	551.0
47.5°	448.6	457.7	485.1	514.7	528.3
50°	420.1	431.5	458.8	493.0	506.7
52.5°	392.8	403.1	433.9	469.1	481.6
55°	362.1	373.5	407.7	444.0	459.9
57.5°	337.0	345.0	382.6	420.1	436.1
60°	306.3	316.6	355.2	395.0	413.3
62.5°	273.3	290.3	330.1	371.2	389.4
65°	245.9	259.6	305.2	345.0	362.1
67.5°	217.5	232.3	276.6	318.9	338.2
70°	185.7	205.0	251.6	293.8	312.0
72.5°	157.1	177.7	225.4	266.5	285.8
75°	128.7	150.2	197.0	236.8	255.1
77.5°	101.4	125.3	170.8	201.6	213.0
80°	75.2	98.0	137.8	159.4	168.5
82.5°	52.4	71.8	101.4	112.8	115.0
85°	33.1	45.6	61.5	68.3	67.2
87.5°	14.8	18.2	22.8	25.1	23.9
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)