

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: P731919

Luminaire Tested: **14CZ2-44-HRP-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731919  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-44-HRP-B2750-W2D-4000K  
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

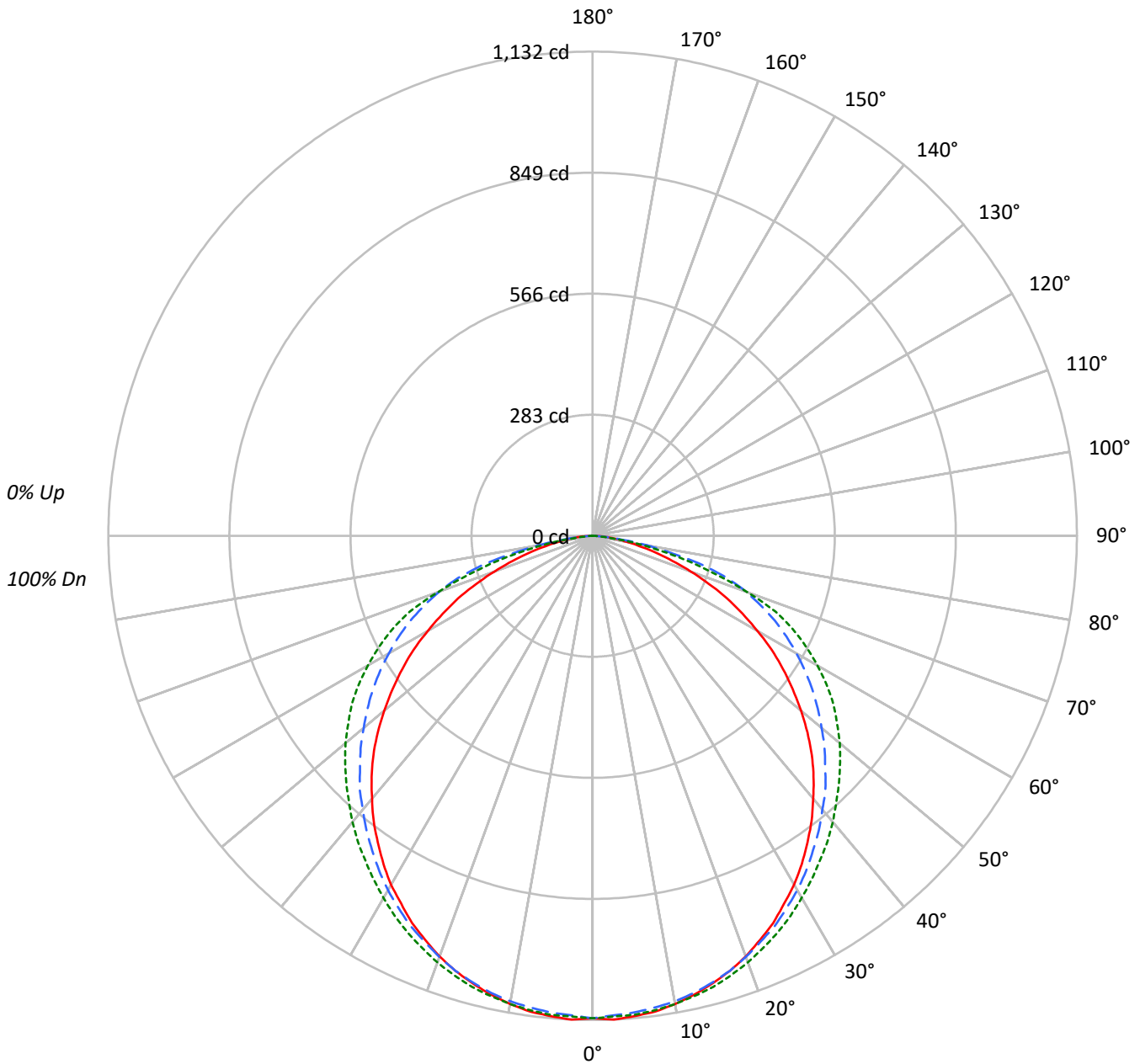
Lumens per Lamp: N/A  
Luminaire Lumens: 3322.0 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 36  
Input Voltage (V): NR  
Input Current (Ain): 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

TEST NUMBER: P731919

CATALOG NUMBER: 14CZ2-44-HRP-B2750-W2D-4000K

### 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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	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	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24																			

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

	0°	45°	90°
0°	3184	3184	3184
5°	3194	3170	3185
10°	3186	3168	3186
15°	3166	3160	3190
20°	3144	3147	3188
25°	3111	3136	3188
30°	3071	3118	3186
35°	3016	3095	3193
40°	2956	3079	3218
45°	2894	3069	3253
50°	2793	3068	3312
55°	2674	3085	3382
60°	2512	3107	3427
65°	2316	3139	3446
70°	2018	3146	3172
75°	1663	2929	2563
80°	1307	2105	1715
85°	1020	813	402



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.8	3.2
10°-20°	306.5	9.2
20°-30°	465.4	14.0
30°-40°	563.9	17.0
40°-50°	594.2	17.9
50°-60°	554.8	16.7
60°-70°	443.3	13.3
70°-80°	244.0	7.3
80°-90°	43.1	1.3
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°	878.7	26.5
0°-40°	1442.6	43.4
0°-60°	2591.6	78.0
0°-90°	3322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3322.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1127	1124	1119	1126	1124	107
15°	1083	1083	1081	1092	1092	306
25°	999	1001	1007	1022	1024	460
35°	875	884	898	921	927	548
45°	725	739	769	803	815	558
55°	543	570	627	671	687	485
65°	347	391	470	509	516	341
75°	152	218	269	241	235	164
85°	32	40	25	16	12	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1128.0	1128.0	1128.0	1128.0	1128.0
2.5°	1132.3	1129.1	1122.0	1128.0	1125.1
5°	1127.2	1124.1	1118.8	1126.2	1124.1
7.5°	1122.0	1117.7	1112.4	1120.9	1118.8
10°	1111.4	1108.2	1105.3	1112.4	1111.4
12.5°	1099.0	1097.9	1094.7	1103.2	1102.1
15°	1083.4	1083.4	1081.2	1091.6	1091.6
17.5°	1066.4	1065.4	1066.4	1078.1	1077.0
20°	1046.6	1046.6	1047.7	1061.4	1061.4
22.5°	1022.6	1023.6	1026.8	1043.4	1042.4
25°	998.8	1000.6	1007.0	1021.5	1023.6
27.5°	969.4	974.7	981.8	999.6	1001.7
30°	942.2	945.4	956.7	973.6	977.6
32.5°	909.9	916.0	928.7	947.5	952.8
35°	875.3	883.8	898.3	921.3	926.6
37.5°	840.9	848.3	868.2	892.0	901.5
40°	802.3	814.8	835.6	862.9	873.2
42.5°	764.5	777.2	805.5	833.5	843.1
45°	724.9	738.6	768.8	803.4	814.8
47.5°	681.0	696.9	735.5	771.9	784.4
50°	636.1	655.9	698.7	739.7	754.2
52.5°	589.3	614.1	663.3	706.1	719.9
55°	543.3	570.2	626.8	670.7	687.3
57.5°	496.2	525.6	589.3	639.2	648.7
60°	444.9	480.6	550.4	594.3	607.0
62.5°	395.0	435.7	510.7	552.5	563.1
65°	346.8	390.7	470.0	508.6	516.0
67.5°	294.5	346.8	425.1	460.8	462.6
70°	244.5	305.1	381.2	397.9	384.4
72.5°	195.4	260.1	330.2	316.4	305.1
75°	152.5	218.4	268.6	241.4	235.0
77.5°	112.9	178.7	192.2	177.7	166.0
80°	80.4	140.9	129.5	110.8	105.5
82.5°	55.3	88.8	71.1	55.3	48.1
85°	31.5	39.7	25.1	15.6	12.4
87.5°	13.5	9.5	5.3	4.2	4.2
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)