

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: P731920

Luminaire Tested: **14CZ2-44-HRP-B2750-W2D-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731920  
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-5000K  
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

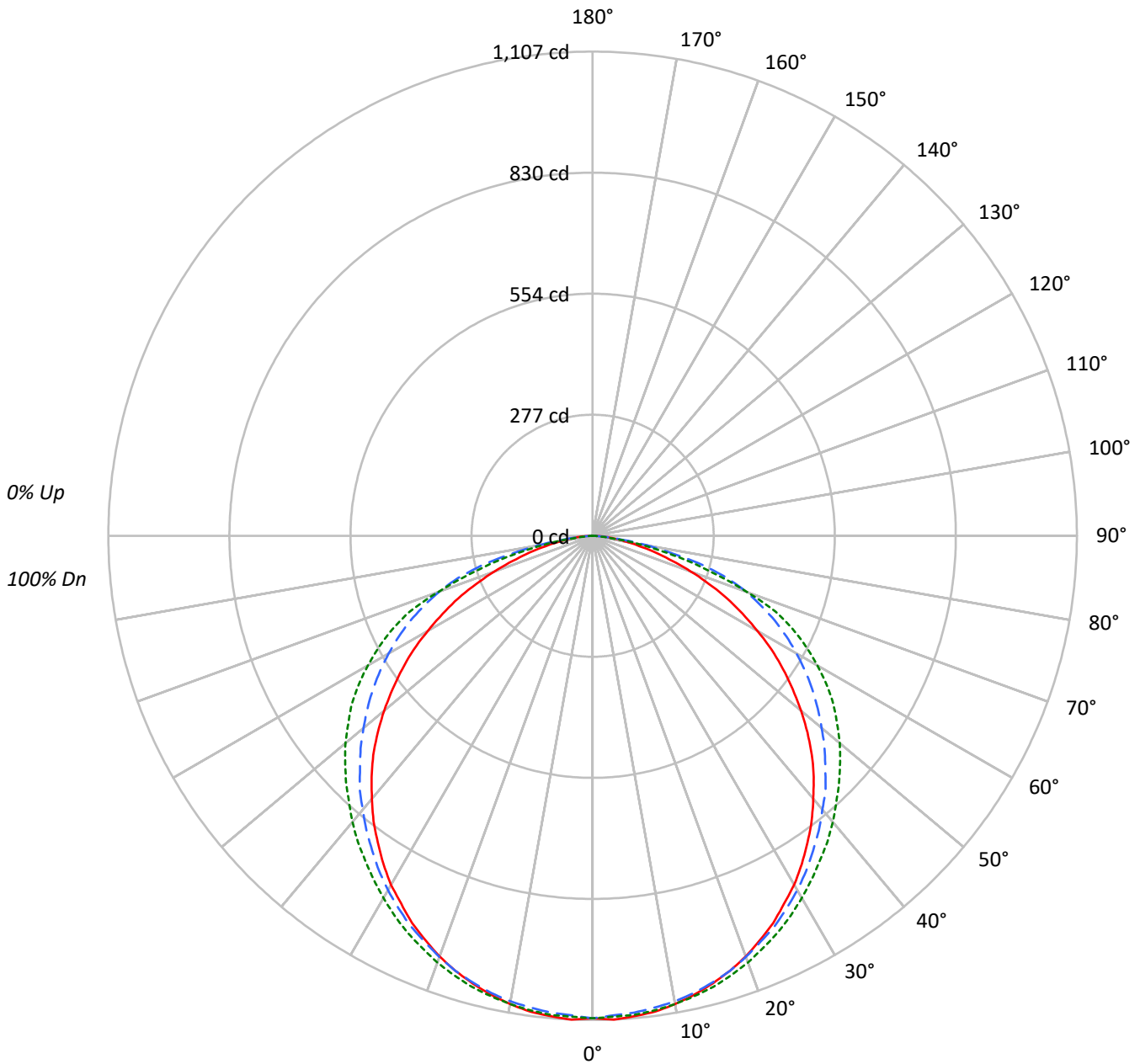
Lumens per Lamp: N/A  
Luminaire Lumens: 3249.0 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P731920

CATALOG NUMBER: 14CZ2-44-HRP-B2750-W2D-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P731920

CATALOG NUMBER: 14CZ2-44-HRP-B2750-W2D-5000K

**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°	3114	3114	3114
5°	3124	3100	3115
10°	3116	3098	3116
15°	3096	3090	3120
20°	3075	3078	3118
25°	3042	3067	3118
30°	3003	3050	3116
35°	2950	3028	3123
40°	2891	3012	3147
45°	2830	3001	3181
50°	2732	3001	3239
55°	2615	3017	3308
60°	2456	3039	3351
65°	2266	3070	3371
70°	1974	3077	3102
75°	1627	2865	2507
80°	1278	2060	1678
85°	998	797	395



TEST NUMBER: P731920

CATALOG NUMBER: 14CZ2-44-HRP-B2750-W2D-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.5	3.2
10°-20°	299.7	9.2
20°-30°	455.2	14.0
30°-40°	551.5	17.0
40°-50°	581.2	17.9
50°-60°	542.6	16.7
60°-70°	433.6	13.3
70°-80°	238.6	7.3
80°-90°	42.1	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°	859.4	26.5
0°-40°	1410.9	43.4
0°-60°	2534.7	78.0
0°-90°	3249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3249.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1103	1103	1103	1103	1103	
5°	1102	1099	1094	1101	1099	105
15°	1060	1060	1058	1068	1068	299
25°	977	979	985	999	1001	450
35°	856	864	879	901	906	536
45°	709	722	752	786	797	545
55°	531	558	613	656	672	474
65°	339	382	460	498	505	334
75°	149	214	263	236	230	161
85°	31	39	25	15	12	37
90°	0	0	0	0	0	



TEST NUMBER: P731920

CATALOG NUMBER: 14CZ2-44-HRP-B2750-W2D-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1103.2	1103.2	1103.2	1103.2	1103.2
2.5°	1107.4	1104.3	1097.3	1103.2	1100.4
5°	1102.5	1099.4	1094.2	1101.4	1099.4
7.5°	1097.3	1093.2	1088.0	1096.3	1094.2
10°	1087.0	1083.9	1081.0	1088.0	1087.0
12.5°	1074.8	1073.8	1070.7	1078.9	1077.9
15°	1059.6	1059.6	1057.5	1067.6	1067.6
17.5°	1043.0	1042.0	1043.0	1054.4	1053.3
20°	1023.6	1023.6	1024.6	1038.1	1038.1
22.5°	1000.1	1001.1	1004.2	1020.5	1019.5
25°	976.8	978.6	984.8	999.0	1001.1
27.5°	948.1	953.3	960.3	977.6	979.7
30°	921.5	924.6	935.7	952.3	956.1
32.5°	889.9	895.9	908.3	926.7	931.8
35°	856.1	864.3	878.6	901.1	906.2
37.5°	822.5	829.7	849.1	872.4	881.7
40°	784.7	796.9	817.3	843.9	854.0
42.5°	747.7	760.1	787.8	815.2	824.5
45°	709.0	722.4	751.9	785.7	796.9
47.5°	666.0	681.5	719.3	755.0	767.1
50°	622.1	641.5	683.4	723.4	737.7
52.5°	576.3	600.6	648.7	690.6	704.0
55°	531.3	557.7	613.0	655.9	672.2
57.5°	485.3	514.0	576.3	625.2	634.5
60°	435.1	470.0	538.3	581.2	593.6
62.5°	386.3	426.1	499.5	540.4	550.7
65°	339.2	382.1	459.7	497.5	504.7
67.5°	288.0	339.2	415.8	450.7	452.5
70°	239.2	298.4	372.8	389.1	375.9
72.5°	191.1	254.4	322.9	309.5	298.4
75°	149.2	213.6	262.7	236.1	229.9
77.5°	110.4	174.8	188.0	173.7	162.4
80°	78.6	137.8	126.7	108.3	103.2
82.5°	54.0	86.9	69.6	54.0	47.1
85°	30.8	38.8	24.6	15.3	12.2
87.5°	13.2	9.3	5.2	4.1	4.1
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)