

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: P731881

Luminaire Tested: **14CZ2-35-SQR-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731881  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-35-SQR-B2750-W2D-2700K  
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

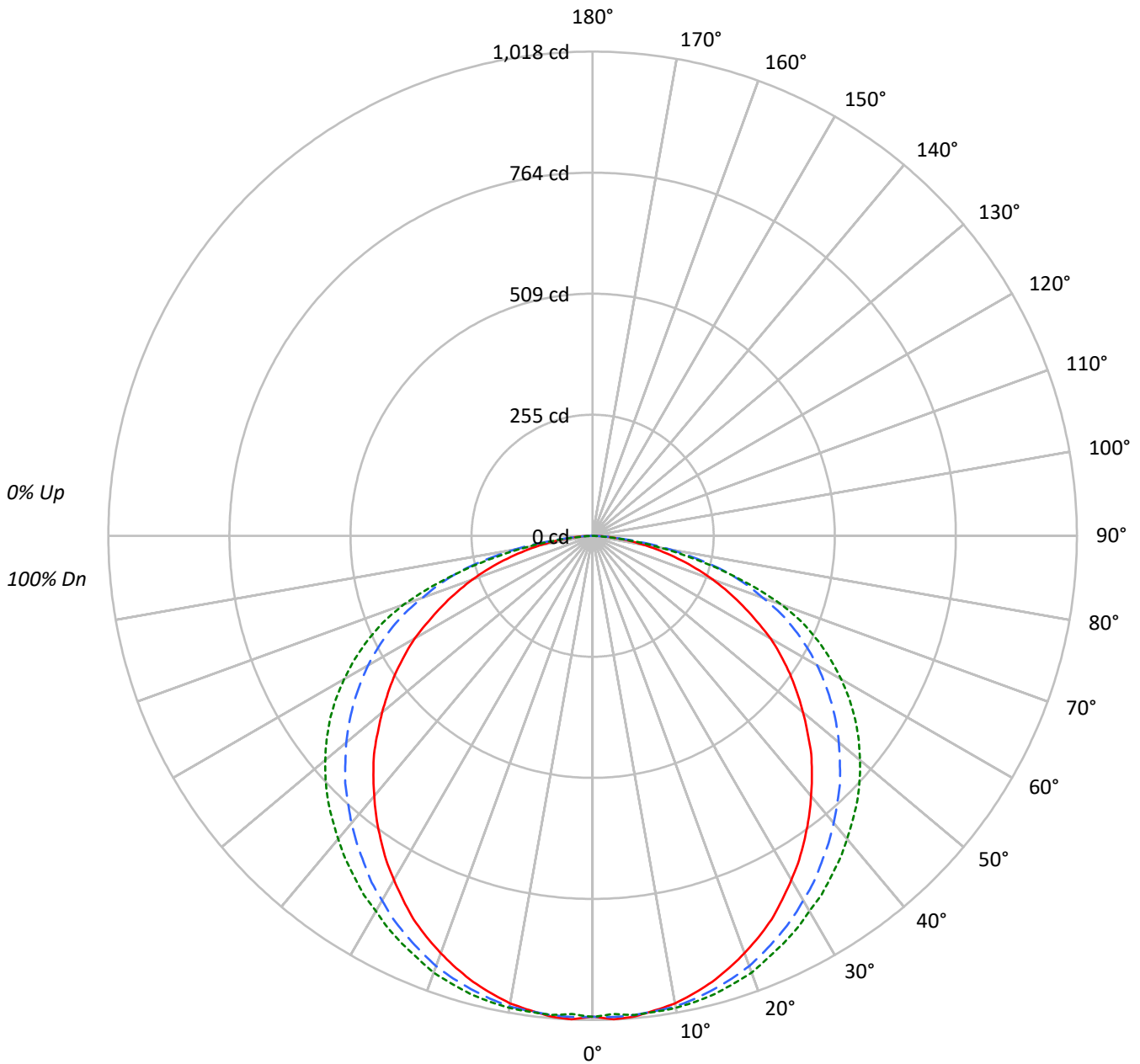
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3200.0 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48																			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41																			
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35																			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

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

	0°	45°	90°
0°	2855	2855	2855
5°	2875	2865	2865
10°	2862	2880	2889
15°	2837	2884	2913
20°	2805	2892	2936
25°	2773	2888	2948
30°	2723	2886	2970
35°	2679	2890	3012
40°	2632	2906	3066
45°	2595	2936	3142
50°	2536	2967	3222
55°	2492	3016	3317
60°	2440	3078	3405
65°	2327	3134	3490
70°	2209	3140	3487
75°	2023	3131	3078
80°	1730	2674	2386
85°	1360	1512	891



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.1	3.0
10°-20°	277.6	8.7
20°-30°	424.6	13.3
30°-40°	520.4	16.3
40°-50°	559.7	17.5
50°-60°	537.8	16.8
60°-70°	447.8	14.0
70°-80°	274.9	8.6
80°-90°	61.2	1.9
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°	798.3	24.9
0°-40°	1318.6	41.2
0°-60°	2416.1	75.5
0°-90°	3200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3200.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1014	1005	1011	1011	1011	96
15°	971	968	987	994	997	274
25°	890	898	927	939	947	409
35°	777	797	839	861	874	486
45°	650	679	735	769	787	500
55°	506	550	613	655	674	452
65°	348	402	469	508	523	345
75°	186	242	287	286	282	196
85°	42	63	47	32	28	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1011.3	1011.3	1011.3	1011.3	1011.3
2.5°	1017.6	1008.0	1012.9	1011.3	1006.4
5°	1014.5	1004.8	1011.3	1011.3	1011.3
7.5°	1006.4	998.4	1008.0	1009.5	1009.5
10°	998.4	991.9	1004.8	1006.4	1008.0
12.5°	985.4	980.5	996.8	999.9	1003.1
15°	970.9	967.7	987.0	993.5	996.8
17.5°	953.2	954.8	975.8	983.8	987.0
20°	933.8	938.7	962.8	970.9	977.4
22.5°	912.8	919.3	945.2	954.8	961.3
25°	890.2	898.3	927.3	938.7	946.7
27.5°	862.7	875.7	908.1	922.6	930.7
30°	835.5	850.0	885.5	903.2	911.2
32.5°	808.0	824.1	864.5	882.2	895.1
35°	777.4	796.8	838.6	861.2	874.1
37.5°	746.8	769.3	814.5	840.2	854.7
40°	714.4	738.7	788.6	817.6	832.1
42.5°	682.2	709.7	761.3	793.5	809.6
45°	650.0	679.1	735.4	769.3	787.0
47.5°	612.9	648.4	704.8	743.4	761.3
50°	577.4	616.1	675.7	716.1	733.8
52.5°	541.9	582.3	645.1	687.1	704.8
55°	506.3	549.9	612.9	654.7	674.1
57.5°	469.3	514.4	579.0	622.5	640.2
60°	432.2	479.1	545.2	585.4	603.1
62.5°	388.6	443.5	508.1	548.3	564.4
65°	348.4	401.5	469.3	508.1	522.6
67.5°	308.1	362.9	429.0	464.5	477.3
70°	267.7	322.6	380.5	414.5	422.5
72.5°	227.5	282.2	337.2	356.4	353.3
75°	185.5	242.0	287.1	285.6	282.2
77.5°	145.2	200.0	227.5	216.1	211.4
80°	106.4	159.8	164.5	153.3	146.8
82.5°	72.6	114.4	103.2	90.3	83.8
85°	42.0	62.8	46.7	32.2	27.5
87.5°	17.7	16.1	4.9	4.9	3.1
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)