

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: P731882

Luminaire Tested: **14CZ2-35-SQR-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731882  
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-3000K  
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

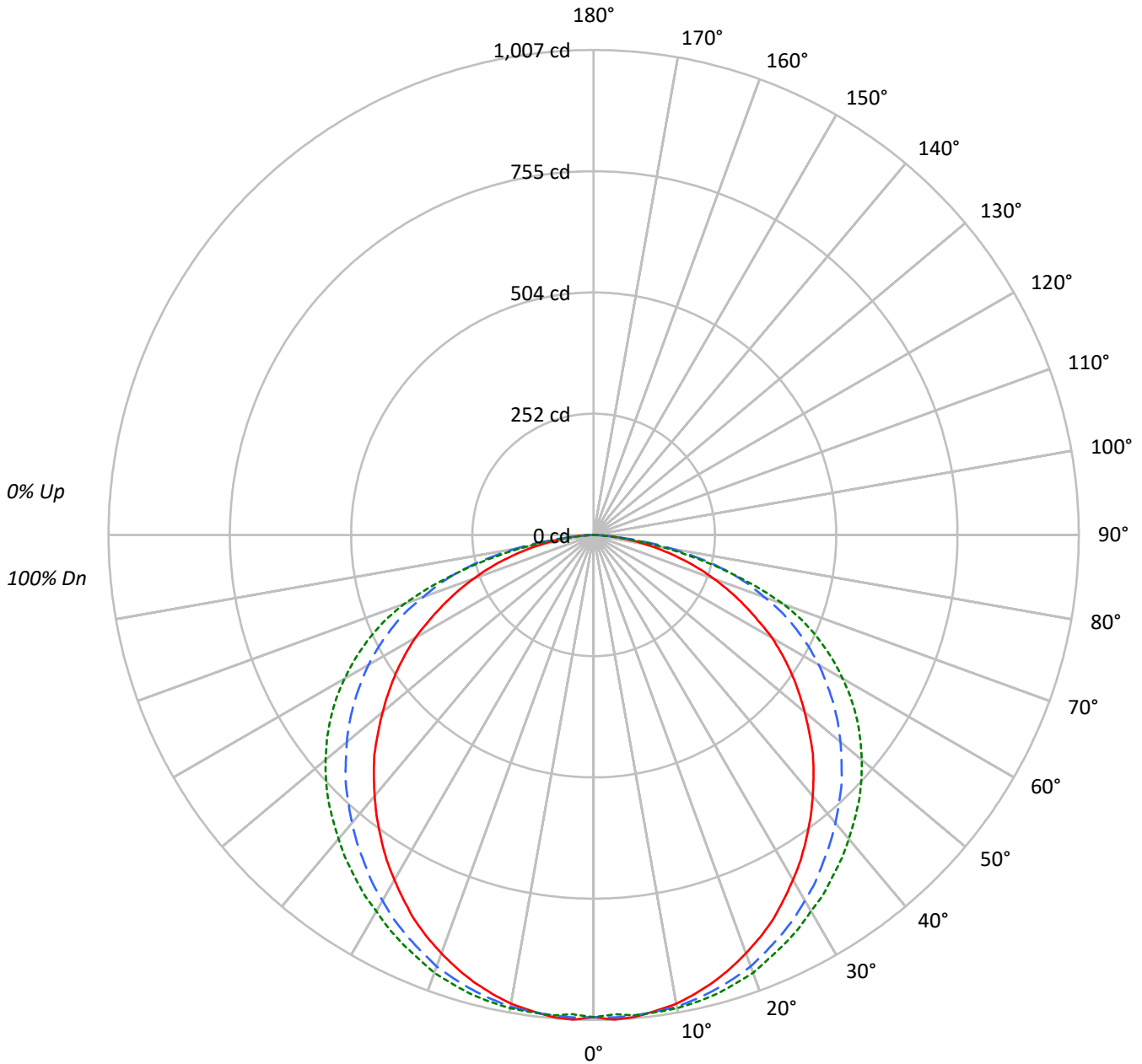
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3168.0 lumens  
Efficiency: N/A  
Efficacy: 113.1 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					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	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°	2826	2826	2826
5°	2846	2837	2837
10°	2833	2851	2860
15°	2809	2855	2884
20°	2777	2863	2907
25°	2745	2859	2919
30°	2696	2857	2940
35°	2652	2861	2982
40°	2606	2877	3035
45°	2569	2906	3110
50°	2510	2938	3190
55°	2467	2986	3284
60°	2415	3047	3371
65°	2304	3103	3456
70°	2187	3109	3452
75°	2002	3101	3047
80°	1712	2646	2362
85°	1347	1496	881



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.1	3.0
10°-20°	274.8	8.7
20°-30°	420.3	13.3
30°-40°	515.2	16.3
40°-50°	554.1	17.5
50°-60°	532.4	16.8
60°-70°	443.3	14.0
70°-80°	272.1	8.6
80°-90°	60.6	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°	790.3	24.9
0°-40°	1305.4	41.2
0°-60°	2391.9	75.5
0°-90°	3168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3168.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	1004	995	1001	1001	1001	95
15°	961	958	977	984	987	271
25°	881	889	918	929	937	405
35°	770	789	830	853	865	482
45°	644	672	728	762	779	495
55°	501	544	607	648	667	448
65°	345	398	465	503	517	342
75°	184	240	284	283	279	194
85°	42	62	46	32	27	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1001.2	1001.2	1001.2	1001.2	1001.2
2.5°	1007.4	997.9	1002.8	1001.2	996.3
5°	1004.3	994.8	1001.2	1001.2	1001.2
7.5°	996.3	988.4	997.9	999.5	999.5
10°	988.4	982.0	994.8	996.3	997.9
12.5°	975.6	970.7	986.8	989.9	993.0
15°	961.2	958.1	977.1	983.5	986.8
17.5°	943.7	945.2	966.0	974.0	977.1
20°	924.5	929.3	953.2	961.2	967.6
22.5°	903.7	910.1	935.7	945.2	951.7
25°	881.3	889.3	918.0	929.3	937.3
27.5°	854.1	866.9	899.0	913.4	921.3
30°	827.1	841.5	876.7	894.1	902.1
32.5°	799.9	815.8	855.9	873.4	886.2
35°	769.6	788.8	830.2	852.6	865.4
37.5°	739.3	761.6	806.3	831.8	846.2
40°	707.2	731.3	780.7	809.4	823.8
42.5°	675.4	702.6	753.7	785.5	801.5
45°	643.5	672.3	728.0	761.6	779.1
47.5°	606.8	642.0	697.7	736.0	753.7
50°	571.6	609.9	669.0	709.0	726.5
52.5°	536.4	576.5	638.6	680.2	697.7
55°	501.3	544.4	606.8	648.2	667.4
57.5°	464.6	509.2	573.2	616.3	633.8
60°	427.8	474.3	539.8	579.6	597.1
62.5°	384.7	439.1	503.0	542.9	558.8
65°	344.9	397.5	464.6	503.0	517.4
67.5°	305.0	359.3	424.7	459.9	472.5
70°	265.0	319.4	376.7	410.4	418.3
72.5°	225.2	279.4	333.8	352.8	349.7
75°	183.6	239.6	284.3	282.7	279.4
77.5°	143.8	198.0	225.2	213.9	209.3
80°	105.3	158.2	162.8	151.7	145.3
82.5°	71.9	113.3	102.2	89.4	83.0
85°	41.6	62.2	46.2	31.9	27.2
87.5°	17.5	15.9	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)