

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:

Report Number: P842824

Luminaire Tested: **14CZ2-25-SQR-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842824  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 1/5/2024  
Manufacturer:  
Product Line:  
Catalog Number: 14CZ2-25-SQR-UNV-B35  
Description: 1X4 2500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

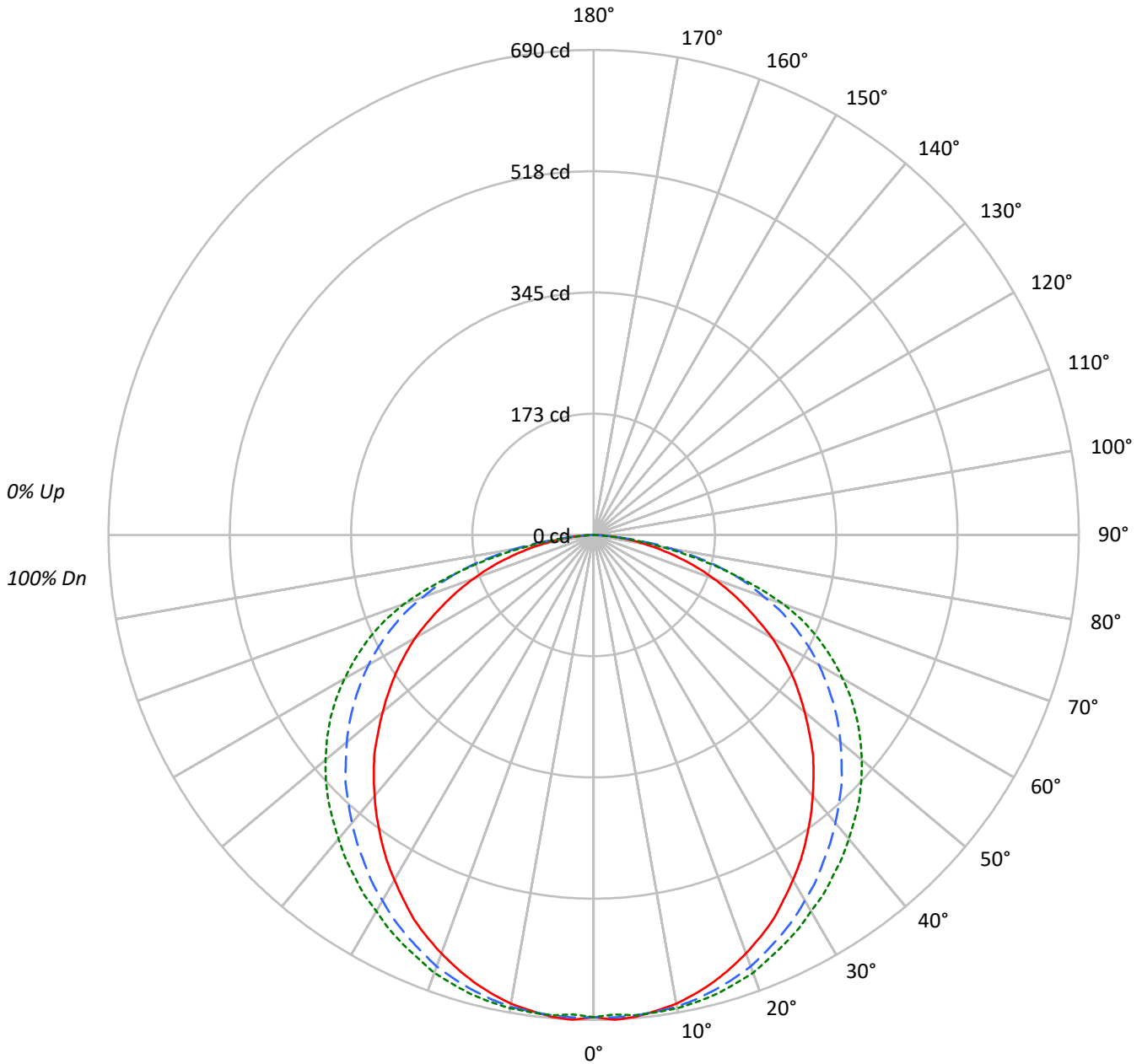
Lumens per Lamp: N/A  
Luminaire Lumens: 2171.0 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
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°	1937	1937	1937
5°	1950	1944	1944
10°	1941	1954	1960
15°	1925	1957	1976
20°	1903	1962	1992
25°	1881	1959	2000
30°	1847	1958	2015
35°	1817	1960	2043
40°	1786	1971	2080
45°	1760	1992	2131
50°	1720	2013	2186
55°	1690	2046	2251
60°	1655	2088	2310
65°	1578	2127	2368
70°	1499	2131	2366
75°	1372	2124	2088
80°	1174	1814	1619
85°	923	1027	602



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.2	3.0
10°-20°	188.3	8.7
20°-30°	288.0	13.3
30°-40°	353.0	16.3
40°-50°	379.7	17.5
50°-60°	364.9	16.8
60°-70°	303.8	14.0
70°-80°	186.5	8.6
80°-90°	41.5	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°	541.6	24.9
0°-40°	894.6	41.2
0°-60°	1639.2	75.5
0°-90°	2171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2171.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	686	686	686	686	686	
5°	688	682	686	686	686	65
15°	659	657	670	674	676	186
25°	604	609	629	637	642	278
35°	527	541	569	584	593	330
45°	441	461	499	522	534	339
55°	344	373	416	444	457	307
65°	236	272	318	345	355	234
75°	126	164	195	194	192	133
85°	28	43	32	22	19	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	686.1	686.1	686.1	686.1	686.1
2.5°	690.4	683.9	687.2	686.1	682.8
5°	688.2	681.7	686.1	686.1	686.1
7.5°	682.8	677.3	683.9	684.9	684.9
10°	677.3	672.9	681.7	682.8	683.9
12.5°	668.5	665.2	676.3	678.4	680.5
15°	658.7	656.6	669.6	674.0	676.3
17.5°	646.7	647.8	662.0	667.5	669.6
20°	633.5	636.8	653.2	658.7	663.1
22.5°	619.3	623.7	641.2	647.8	652.2
25°	604.0	609.4	629.1	636.8	642.3
27.5°	585.3	594.1	616.1	625.9	631.4
30°	566.8	576.7	600.8	612.7	618.2
32.5°	548.2	559.1	586.5	598.5	607.3
35°	527.4	540.6	568.9	584.3	593.0
37.5°	506.6	521.9	552.6	570.0	579.9
40°	484.7	501.2	535.0	554.7	564.5
42.5°	462.8	481.5	516.5	538.3	549.2
45°	441.0	460.7	498.9	521.9	533.9
47.5°	415.8	439.9	478.1	504.4	516.5
50°	391.7	418.0	458.4	485.9	497.8
52.5°	367.6	395.1	437.7	466.2	478.1
55°	343.5	373.1	415.8	444.2	457.4
57.5°	318.4	349.0	392.8	422.3	434.3
60°	293.2	325.0	369.9	397.2	409.2
62.5°	263.6	300.9	344.7	372.0	382.9
65°	236.3	272.4	318.4	344.7	354.6
67.5°	209.0	246.2	291.1	315.2	323.8
70°	181.6	218.9	258.2	281.2	286.7
72.5°	154.3	191.5	228.7	241.8	239.7
75°	125.8	164.2	194.8	193.7	191.5
77.5°	98.5	135.7	154.3	146.6	143.4
80°	72.2	108.4	111.6	104.0	99.6
82.5°	49.3	77.6	70.0	61.2	56.9
85°	28.5	42.6	31.7	21.8	18.6
87.5°	12.0	10.9	3.3	3.3	2.1
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)