

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: P842806

Luminaire Tested: **14CZ2-20-S-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842806  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer:  
Product Line:  
Catalog Number: 14CZ2-20-S-UNV-B35  
Description: 1X4 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

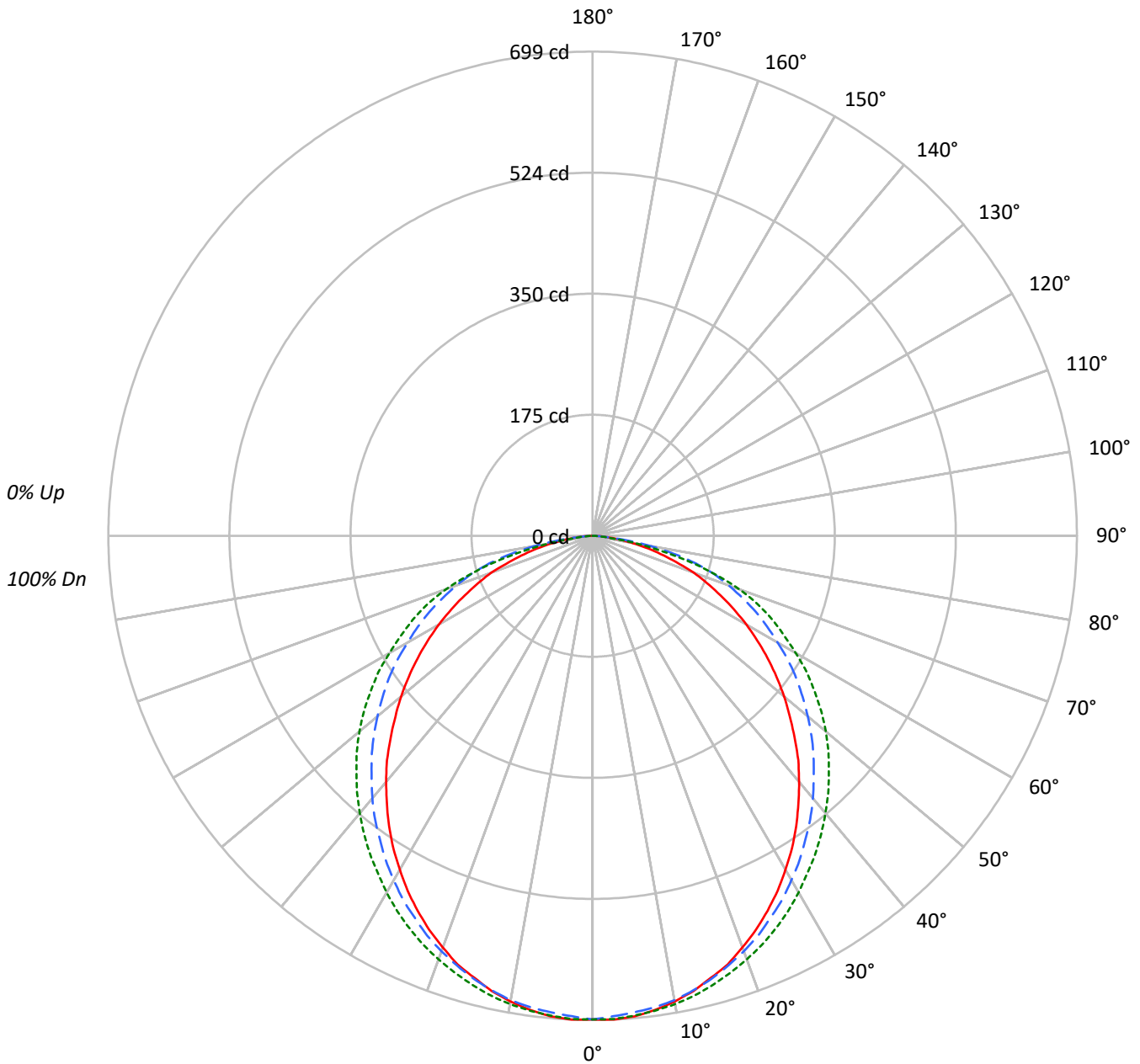
Lumens per Lamp: N/A  
Luminaire Lumens: 1956.0 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

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

	0°	45°	90°
0°	1971	1971	1971
5°	1973	1957	1970
10°	1957	1951	1968
15°	1930	1936	1961
20°	1899	1917	1955
25°	1861	1894	1948
30°	1814	1871	1938
35°	1765	1845	1931
40°	1708	1822	1926
45°	1645	1800	1924
50°	1584	1780	1929
55°	1518	1766	1923
60°	1446	1741	1910
65°	1361	1736	1912
70°	1281	1722	1857
75°	1110	1682	1587
80°	899	1356	1057
85°	596	470	314



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.9	3.4
10°-20°	187.6	9.6
20°-30°	281.4	14.4
30°-40°	335.7	17.2
40°-50°	347.1	17.7
50°-60°	316.9	16.2
60°-70°	249.4	12.7
70°-80°	145.2	7.4
80°-90°	26.7	1.4
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°	535.0	27.4
0°-40°	870.7	44.5
0°-60°	1534.7	78.5
0°-90°	1956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1956.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	696	694	690	696	695	66
15°	660	661	662	671	671	186
25°	597	600	608	623	626	275
35°	512	519	535	556	560	320
45°	412	426	451	476	482	318
55°	308	325	359	385	391	276
65°	204	225	260	280	286	202
75°	102	126	154	151	146	108
85°	18	26	14	12	10	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	698.3	698.3	698.3	698.3	698.3
2.5°	699.2	697.3	694.3	699.2	698.3
5°	696.4	694.3	690.5	696.4	695.3
7.5°	690.5	688.5	686.6	692.4	691.5
10°	682.7	681.7	680.8	687.6	686.6
12.5°	673.1	673.1	672.1	679.8	679.8
15°	660.5	661.4	662.4	671.1	671.1
17.5°	648.8	647.9	650.7	660.5	661.4
20°	632.3	634.2	638.1	649.8	650.7
22.5°	615.8	617.8	624.6	636.2	639.1
25°	597.4	600.3	608.1	622.6	625.5
27.5°	578.0	581.9	592.5	608.1	610.9
30°	556.6	562.4	574.1	591.6	594.5
32.5°	535.3	541.2	555.7	573.1	577.1
35°	512.1	518.8	535.3	555.7	560.5
37.5°	487.8	496.5	516.0	536.3	542.1
40°	463.6	473.3	494.6	516.0	522.7
42.5°	439.3	449.1	472.2	496.5	503.4
45°	412.1	425.8	451.0	476.2	482.0
47.5°	386.0	400.6	428.6	453.8	461.7
50°	360.8	375.3	405.3	431.6	439.3
52.5°	334.6	350.1	382.0	409.3	416.0
55°	308.4	324.9	358.9	385.0	390.8
57.5°	282.2	299.7	334.6	359.8	366.6
60°	256.1	274.5	308.4	333.6	338.4
62.5°	229.8	249.2	284.1	306.5	311.3
65°	203.7	225.0	259.9	280.3	286.2
67.5°	178.5	199.8	233.7	253.1	258.0
70°	155.2	174.6	208.6	223.1	225.0
72.5°	126.1	150.3	183.2	191.1	186.2
75°	101.8	126.1	154.2	151.3	145.5
77.5°	77.6	101.8	120.3	110.5	102.8
80°	55.3	79.5	83.4	68.8	65.0
82.5°	35.9	55.3	46.6	35.9	29.1
85°	18.4	26.1	14.5	11.6	9.7
87.5°	5.8	3.9	1.9	1.9	1.0
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)