

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: P731843

Luminaire Tested: **14CZ2-29-HRP-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731843  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer:  
Product Line:  
Catalog Number: 14CZ2-29-HRP-B2750-W2D-3500K  
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

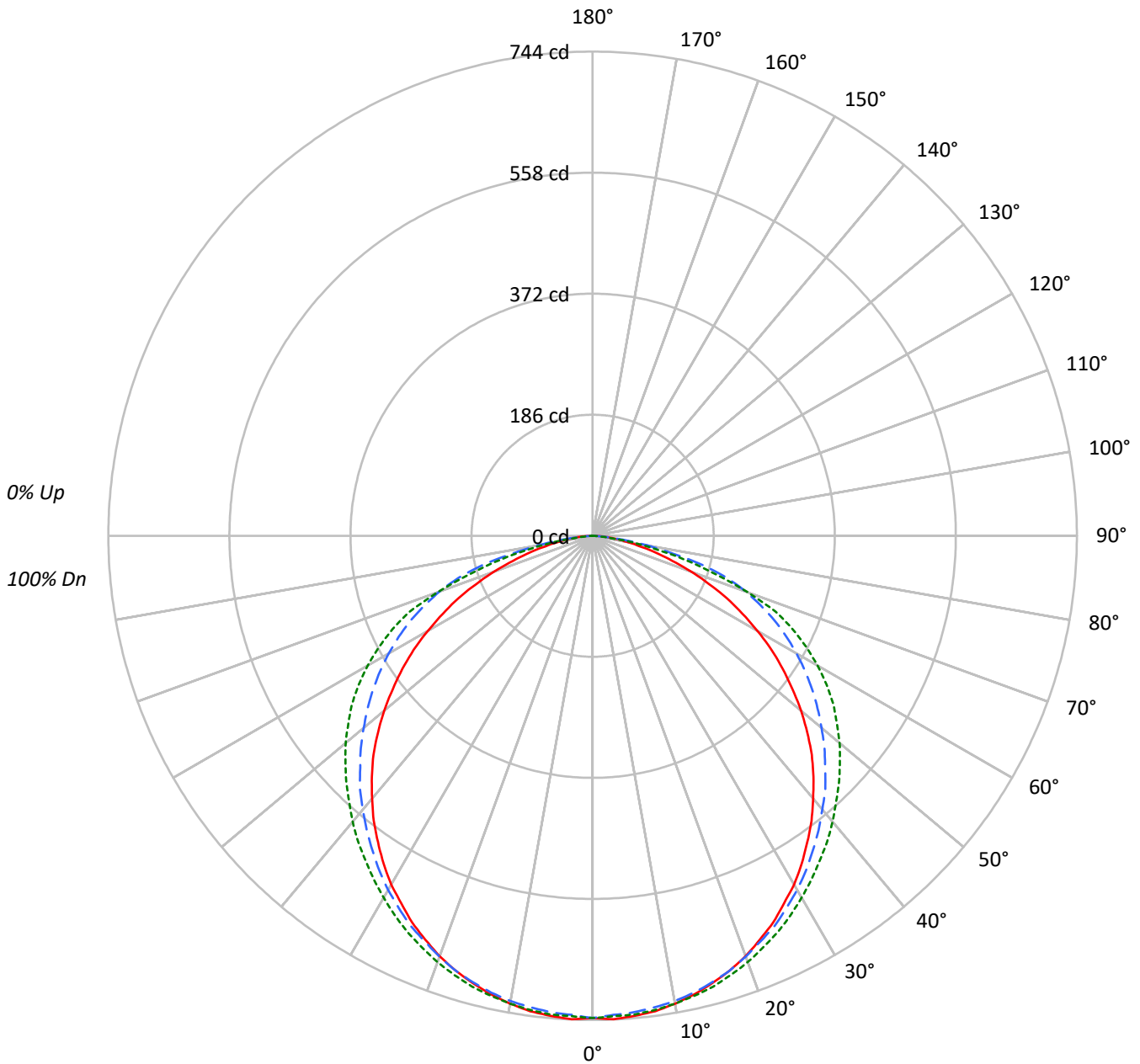
Lumens per Lamp: N/A  
Luminaire Lumens: 2182.0 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
Input Voltage (V): NR  
Input Current (Ain): 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	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°	2091	2091	2091
5°	2098	2082	2092
10°	2092	2081	2092
15°	2079	2075	2095
20°	2065	2067	2094
25°	2043	2060	2094
30°	2017	2048	2093
35°	1981	2033	2097
40°	1942	2023	2113
45°	1901	2016	2136
50°	1835	2015	2175
55°	1756	2026	2222
60°	1650	2041	2251
65°	1521	2062	2264
70°	1325	2067	2084
75°	1093	1924	1684
80°	858	1383	1126
85°	670	534	266



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.2	3.2
10°-20°	201.3	9.2
20°-30°	305.7	14.0
30°-40°	370.4	17.0
40°-50°	390.3	17.9
50°-60°	364.4	16.7
60°-70°	291.2	13.3
70°-80°	160.2	7.3
80°-90°	28.3	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°	577.1	26.4
0°-40°	947.5	43.4
0°-60°	1702.2	78.0
0°-90°	2182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2182.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	740	738	735	740	738	70
15°	712	712	710	717	717	201
25°	656	657	661	671	672	302
35°	575	580	590	605	609	360
45°	476	485	505	528	535	366
55°	357	374	412	440	452	318
65°	228	257	309	334	339	224
75°	100	143	176	158	154	108
85°	21	26	16	10	8	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	740.9	740.9	740.9	740.9	740.9
2.5°	743.7	741.6	736.9	740.9	739.0
5°	740.4	738.3	734.9	739.7	738.3
7.5°	736.9	734.2	730.7	736.2	734.9
10°	730.0	727.9	726.0	730.7	730.0
12.5°	721.8	721.1	719.1	724.6	723.9
15°	711.6	711.6	710.2	717.0	717.0
17.5°	700.5	699.8	700.5	708.1	707.4
20°	687.4	687.4	688.1	697.2	697.2
22.5°	671.6	672.3	674.4	685.4	684.7
25°	656.0	657.2	661.4	671.0	672.3
27.5°	636.7	640.2	644.9	656.5	657.9
30°	618.9	620.9	628.4	639.5	642.1
32.5°	597.7	601.7	610.0	622.3	625.8
35°	574.9	580.5	590.0	605.1	608.6
37.5°	552.4	557.2	570.2	585.9	592.1
40°	527.0	535.2	548.9	566.8	573.5
42.5°	502.2	510.5	529.1	547.5	553.7
45°	476.1	485.2	505.0	527.7	535.2
47.5°	447.3	457.7	483.1	507.0	515.2
50°	417.8	430.8	458.9	485.9	495.4
52.5°	387.0	403.4	435.7	463.8	472.8
55°	356.8	374.5	411.7	440.5	451.5
57.5°	325.9	345.2	387.0	419.9	426.1
60°	292.2	315.7	361.5	390.3	398.7
62.5°	259.4	286.2	335.5	362.9	369.9
65°	227.8	256.6	308.7	334.1	338.9
67.5°	193.4	227.8	279.2	302.7	303.9
70°	160.6	200.4	250.4	261.3	252.5
72.5°	128.3	170.9	216.9	207.8	200.4
75°	100.2	143.4	176.4	158.5	154.4
77.5°	74.1	117.4	126.2	116.7	109.0
80°	52.8	92.6	85.1	72.8	69.3
82.5°	36.3	58.3	46.7	36.3	31.6
85°	20.7	26.0	16.5	10.2	8.2
87.5°	8.9	6.3	3.5	2.8	2.8
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)