

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: P842839

Luminaire Tested: **14CZ2-29-SQR-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842839  
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: 14CZ2-29-SQR-UNV-B35  
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

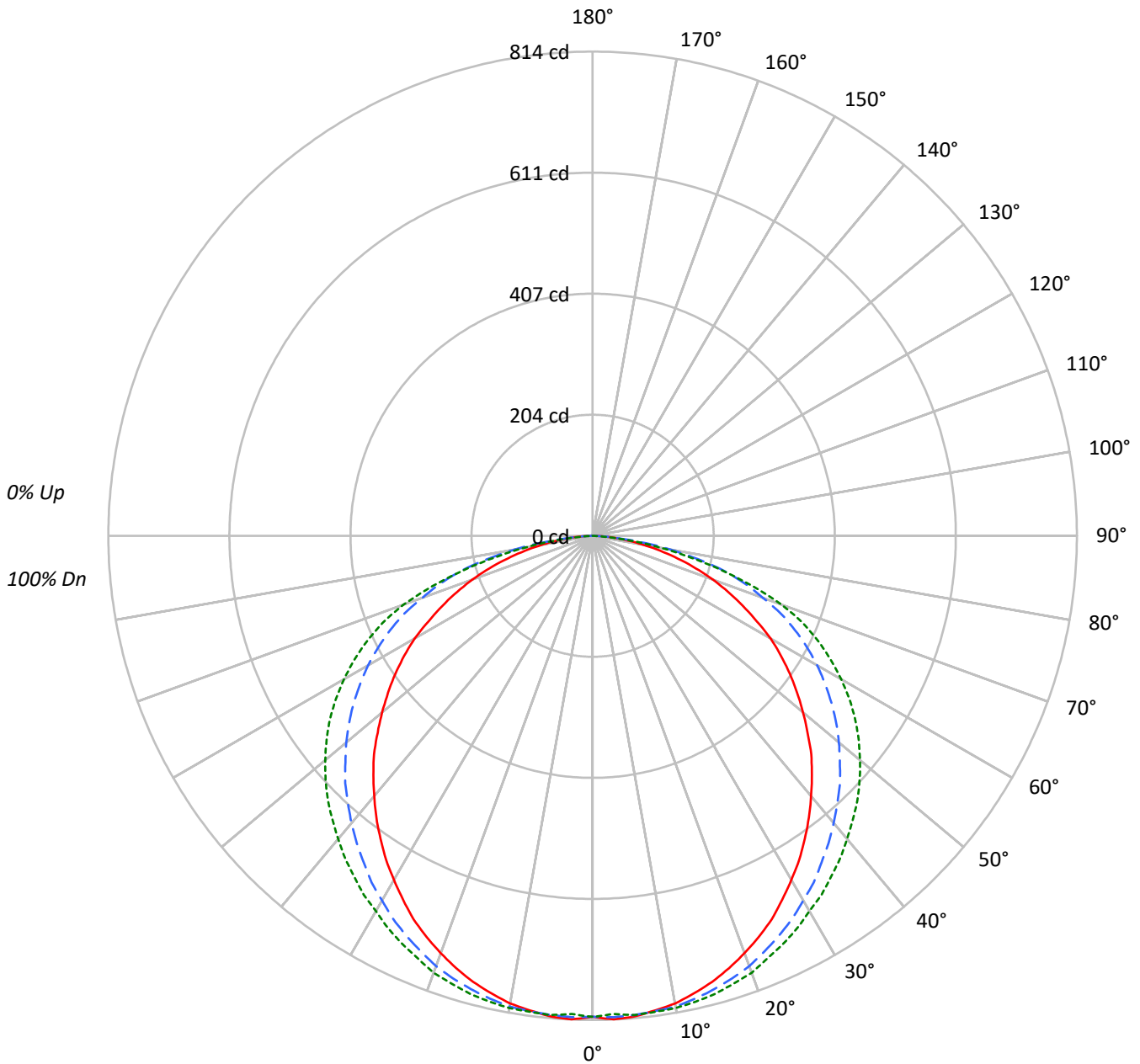
Lumens per Lamp: N/A  
Luminaire Lumens: 2559.0 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
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°	2283	2283	2283
5°	2299	2291	2291
10°	2288	2303	2310
15°	2269	2307	2329
20°	2243	2313	2348
25°	2217	2310	2358
30°	2178	2308	2375
35°	2142	2311	2409
40°	2105	2324	2452
45°	2075	2348	2512
50°	2027	2373	2577
55°	1993	2412	2653
60°	1951	2461	2723
65°	1861	2507	2791
70°	1767	2511	2789
75°	1617	2504	2461
80°	1383	2138	1908
85°	1088	1211	713



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.9	3.0
10°-20°	222.0	8.7
20°-30°	339.5	13.3
30°-40°	416.1	16.3
40°-50°	447.5	17.5
50°-60°	430.1	16.8
60°-70°	358.1	14.0
70°-80°	219.8	8.6
80°-90°	49.0	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°	638.4	24.9
0°-40°	1054.5	41.2
0°-60°	1932.1	75.5
0°-90°	2559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2559.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	809	809	809	809	809	
5°	811	804	809	809	809	77
15°	776	774	789	794	797	219
25°	712	718	742	751	757	327
35°	622	637	671	689	699	389
45°	520	543	588	615	629	400
55°	405	440	490	524	539	362
65°	279	321	375	406	418	276
75°	148	194	230	228	226	157
85°	34	50	37	26	22	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	808.7	808.7	808.7	808.7	808.7
2.5°	813.8	806.1	810.0	808.7	804.8
5°	811.2	803.6	808.7	808.7	808.7
7.5°	804.8	798.4	806.1	807.3	807.3
10°	798.4	793.2	803.6	804.8	806.1
12.5°	788.0	784.1	797.1	799.6	802.1
15°	776.4	773.9	789.3	794.5	797.1
17.5°	762.3	763.5	780.3	786.8	789.3
20°	746.7	750.7	770.0	776.4	781.6
22.5°	730.0	735.1	755.8	763.5	768.7
25°	711.9	718.3	741.6	750.7	757.1
27.5°	689.9	700.3	726.2	737.8	744.2
30°	668.1	679.7	708.1	722.3	728.7
32.5°	646.1	659.0	691.3	705.5	715.8
35°	621.7	637.2	670.6	688.7	699.0
37.5°	597.2	615.2	651.3	671.9	683.5
40°	571.3	590.7	630.6	653.8	665.4
42.5°	545.5	567.5	608.8	634.5	647.4
45°	519.8	543.0	588.1	615.2	629.3
47.5°	490.1	518.5	563.6	594.5	608.8
50°	461.7	492.6	540.4	572.7	586.8
52.5°	433.3	465.7	515.9	549.5	563.6
55°	404.9	439.8	490.1	523.6	539.1
57.5°	375.3	411.4	463.0	497.8	512.0
60°	345.6	383.1	436.0	468.2	482.3
62.5°	310.8	354.7	406.3	438.5	451.4
65°	278.6	321.1	375.3	406.3	417.9
67.5°	246.4	290.2	343.1	371.5	381.7
70°	214.1	258.0	304.3	331.5	337.9
72.5°	181.9	225.7	269.6	285.0	282.5
75°	148.3	193.5	229.6	228.4	225.7
77.5°	116.1	159.9	181.9	172.8	169.0
80°	85.1	127.8	131.5	122.6	117.4
82.5°	58.1	91.5	82.6	72.2	67.0
85°	33.6	50.2	37.4	25.7	22.0
87.5°	14.1	12.9	3.9	3.9	2.5
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)