

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: P842881

Luminaire Tested: **14CZ2-44-S-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842881  
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: 14CZ2-44-S-UNV-B35  
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

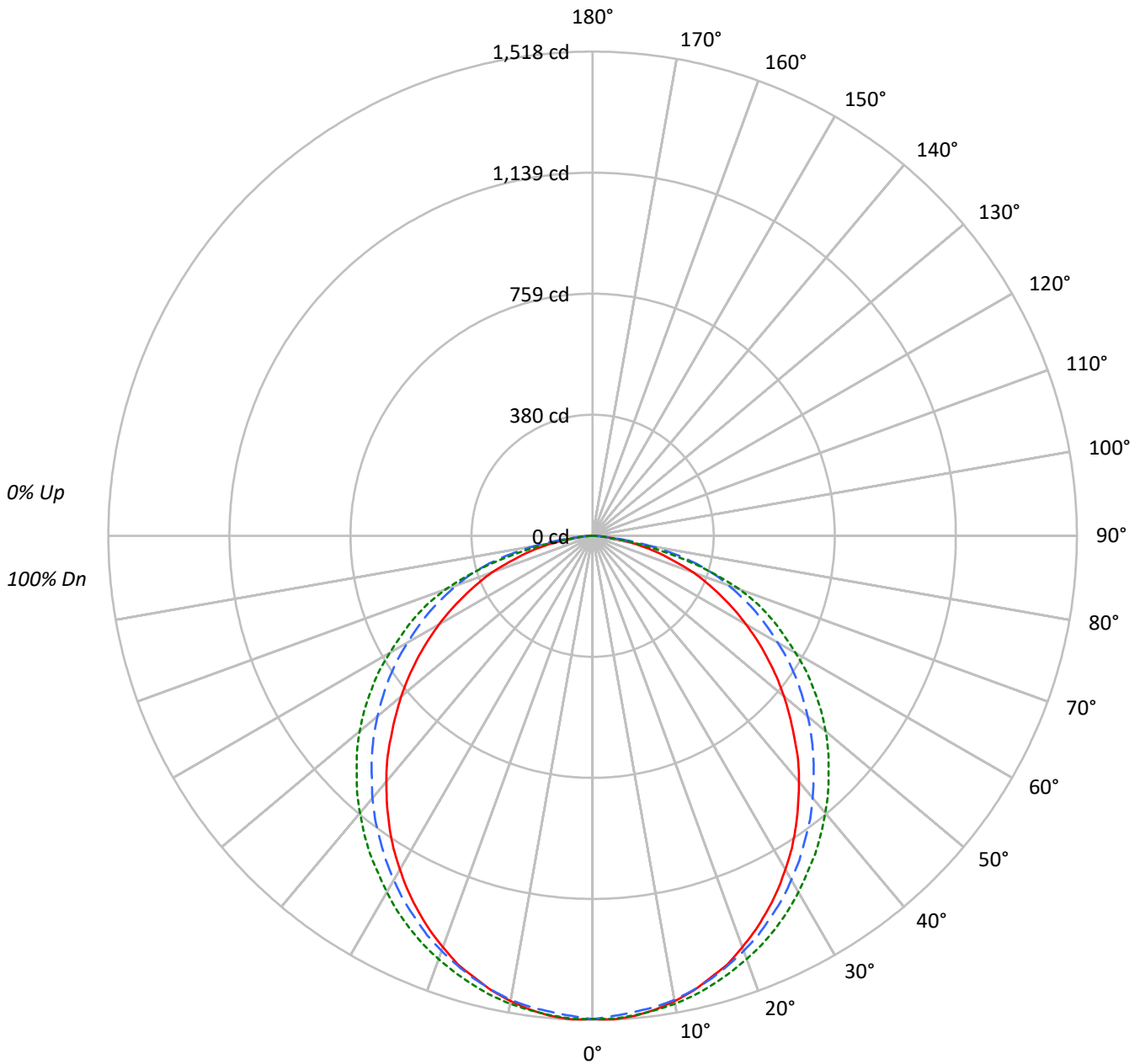
Lumens per Lamp: N/A  
Luminaire Lumens: 4245.0 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 36  
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

TEST NUMBER: P842881

CATALOG NUMBER: 14CZ2-44-S-UNV-B35

### Luminous Intensity Polar Plot





TEST NUMBER: P842881

CATALOG NUMBER: 14CZ2-44-S-UNV-B35

**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°	4277	4277	4277
5°	4282	4246	4276
10°	4247	4235	4271
15°	4189	4201	4256
20°	4122	4160	4242
25°	4038	4110	4228
30°	3937	4061	4206
35°	3829	4003	4192
40°	3707	3955	4180
45°	3570	3907	4175
50°	3438	3863	4187
55°	3293	3833	4174
60°	3138	3778	4147
65°	2952	3767	4148
70°	2780	3735	4029
75°	2410	3651	3443
80°	1949	2942	2294
85°	1295	1020	683



TEST NUMBER: P842881

CATALOG NUMBER: 14CZ2-44-S-UNV-B35

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.1	3.4
10°-20°	407.2	9.6
20°-30°	610.8	14.4
30°-40°	728.6	17.2
40°-50°	753.3	17.7
50°-60°	687.7	16.2
60°-70°	541.2	12.7
70°-80°	315.0	7.4
80°-90°	58.0	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°	1161.1	27.4
0°-40°	1889.7	44.5
0°-60°	3330.7	78.5
0°-90°	4245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4245.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1511	1507	1499	1511	1509	143
15°	1433	1436	1438	1456	1456	404
25°	1296	1303	1320	1351	1358	597
35°	1111	1126	1162	1206	1216	695
45°	894	924	979	1033	1046	691
55°	669	705	779	836	848	599
65°	442	488	564	608	621	439
75°	221	274	335	328	316	235
85°	40	57	32	25	21	52
90°	0	0	0	0	0	



TEST NUMBER: P842881

CATALOG NUMBER: 14CZ2-44-S-UNV-B35

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1515.4	1515.4	1515.4	1515.4	1515.4
2.5°	1517.5	1513.3	1506.9	1517.5	1515.4
5°	1511.3	1506.9	1498.6	1511.3	1509.0
7.5°	1498.6	1494.3	1490.1	1502.8	1500.7
10°	1481.6	1479.6	1477.5	1492.2	1490.1
12.5°	1460.7	1460.7	1458.7	1475.4	1475.4
15°	1433.4	1435.5	1437.5	1456.3	1456.3
17.5°	1408.1	1406.1	1412.2	1433.4	1435.5
20°	1372.3	1376.4	1384.9	1410.2	1412.2
22.5°	1336.4	1340.8	1355.5	1380.8	1387.0
25°	1296.5	1302.9	1319.7	1351.1	1357.6
27.5°	1254.4	1262.9	1285.9	1319.7	1325.9
30°	1208.0	1220.6	1245.9	1283.8	1290.3
32.5°	1161.8	1174.5	1205.9	1243.8	1252.4
35°	1111.3	1126.0	1161.8	1205.9	1216.5
37.5°	1058.7	1077.5	1119.8	1163.9	1176.5
40°	1006.1	1027.2	1073.4	1119.8	1134.5
42.5°	953.4	974.6	1024.9	1077.5	1092.5
45°	894.4	924.0	978.7	1033.4	1046.0
47.5°	837.7	869.4	930.2	984.9	1001.9
50°	783.0	814.4	879.7	936.7	953.4
52.5°	726.2	759.8	829.1	888.2	902.9
55°	669.2	705.1	778.9	835.6	848.2
57.5°	612.5	650.4	726.2	780.9	795.6
60°	555.8	595.7	669.2	723.9	734.5
62.5°	498.8	540.8	616.6	665.1	675.7
65°	442.0	488.2	564.0	608.4	621.0
67.5°	387.4	433.5	507.3	549.3	559.9
70°	336.8	378.9	452.6	484.1	488.2
72.5°	273.6	326.2	397.7	414.7	404.1
75°	221.0	273.6	334.8	328.3	315.7
77.5°	168.4	221.0	261.0	239.8	223.1
80°	119.9	172.5	181.0	149.3	141.1
82.5°	77.9	119.9	101.1	77.9	63.2
85°	40.0	56.7	31.5	25.3	21.1
87.5°	12.6	8.5	4.1	4.1	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)