

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: P842851

Luminaire Tested: **14CZ2-35-S-UNV-B35**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P842851  
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: 14CZ2-35-S-UNV-B35  
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

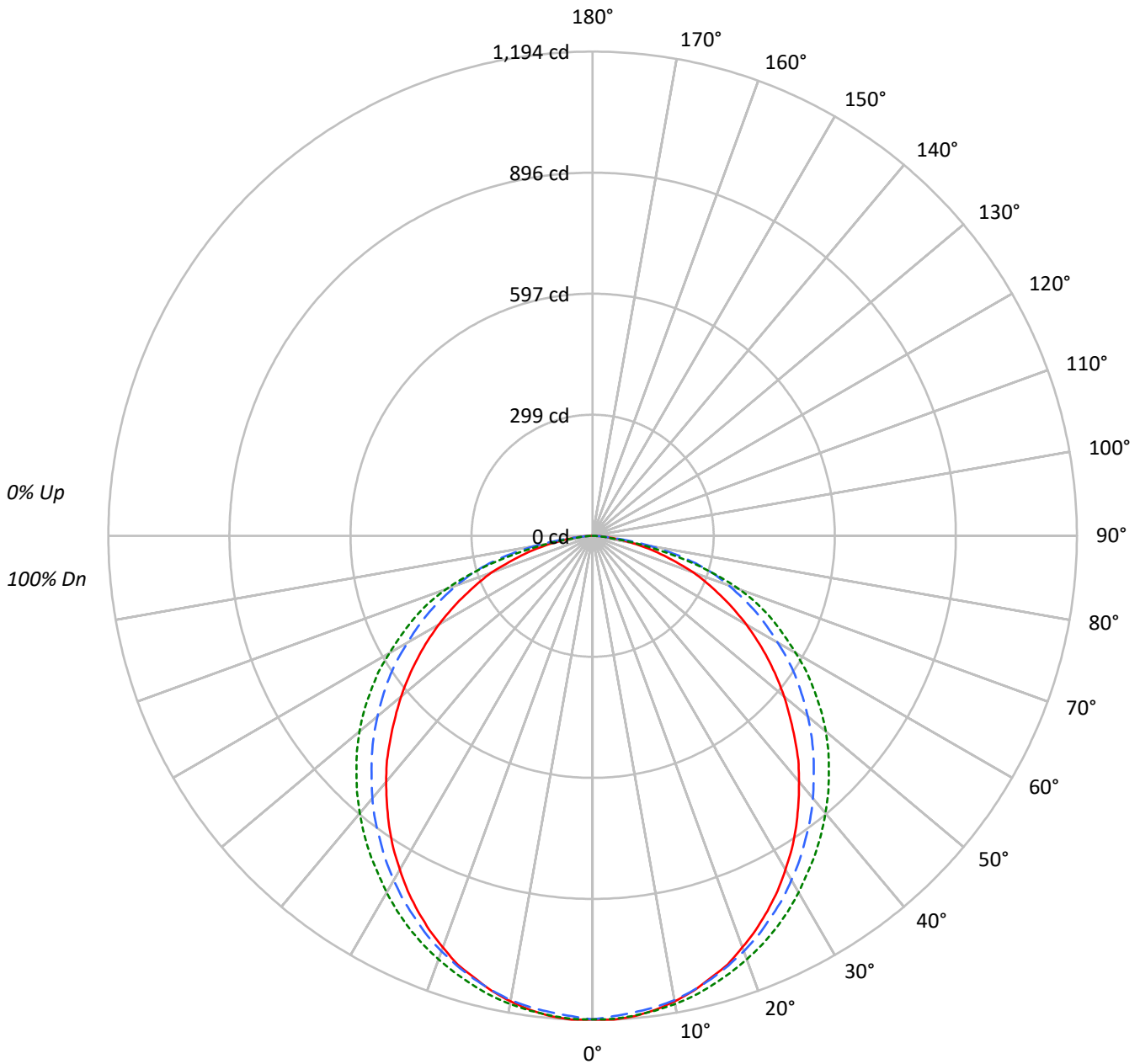
Lumens per Lamp: N/A  
Luminaire Lumens: 3341.0 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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					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	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°	3367	3367	3367
5°	3370	3342	3365
10°	3342	3333	3362
15°	3297	3306	3349
20°	3244	3274	3339
25°	3178	3235	3328
30°	3099	3196	3310
35°	3014	3151	3299
40°	2918	3113	3290
45°	2810	3075	3287
50°	2706	3041	3295
55°	2592	3017	3285
60°	2469	2973	3264
65°	2324	2965	3265
70°	2188	2940	3171
75°	1898	2874	2709
80°	1534	2316	1804
85°	1020	803	538



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.6	3.4
10°-20°	320.5	9.6
20°-30°	480.7	14.4
30°-40°	573.5	17.2
40°-50°	592.8	17.7
50°-60°	541.3	16.2
60°-70°	426.0	12.7
70°-80°	248.0	7.4
80°-90°	45.7	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°	913.8	27.4
0°-40°	1487.3	44.5
0°-60°	2621.4	78.5
0°-90°	3341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3341.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1193	1193	1193	1193	1193	
5°	1189	1186	1180	1189	1188	113
15°	1128	1130	1131	1146	1146	318
25°	1020	1025	1039	1063	1068	470
35°	875	886	914	949	957	547
45°	704	727	770	813	823	544
55°	527	555	613	658	668	471
65°	348	384	444	479	489	345
75°	174	215	264	258	248	185
85°	32	45	25	20	17	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1192.7	1192.7	1192.7	1192.7	1192.7
2.5°	1194.3	1191.1	1186.0	1194.3	1192.7
5°	1189.4	1186.0	1179.5	1189.4	1187.6
7.5°	1179.5	1176.0	1172.8	1182.7	1181.1
10°	1166.1	1164.5	1162.9	1174.4	1172.8
12.5°	1149.7	1149.7	1148.0	1161.2	1161.2
15°	1128.1	1129.8	1131.4	1146.2	1146.2
17.5°	1108.3	1106.6	1111.5	1128.1	1129.8
20°	1080.0	1083.3	1090.0	1109.9	1111.5
22.5°	1051.8	1055.3	1066.8	1086.7	1091.6
25°	1020.4	1025.4	1038.6	1063.4	1068.5
27.5°	987.3	994.0	1012.0	1038.6	1043.5
30°	950.7	960.7	980.6	1010.4	1015.5
32.5°	914.4	924.4	949.1	979.0	985.7
35°	874.6	886.2	914.4	949.1	957.4
37.5°	833.2	848.0	881.3	916.0	926.0
40°	791.8	808.5	844.8	881.3	892.9
42.5°	750.4	767.0	806.6	848.0	859.8
45°	703.9	727.3	770.3	813.3	823.3
47.5°	659.3	684.2	732.1	775.2	788.6
50°	616.2	641.0	692.4	737.2	750.4
52.5°	571.6	598.0	652.6	699.1	710.6
55°	526.7	554.9	613.0	657.6	667.6
57.5°	482.1	511.9	571.6	614.6	626.2
60°	437.4	468.9	526.7	569.8	578.1
62.5°	392.6	425.6	485.3	523.5	531.8
65°	347.9	384.2	443.9	478.8	488.8
67.5°	304.9	341.2	399.3	432.3	440.7
70°	265.1	298.2	356.2	381.0	384.2
72.5°	215.4	256.8	313.0	326.4	318.1
75°	174.0	215.4	263.5	258.4	248.4
77.5°	132.5	174.0	205.4	188.8	175.6
80°	94.4	135.8	142.5	117.5	111.0
82.5°	61.3	94.4	79.6	61.3	49.7
85°	31.5	44.7	24.8	19.9	16.6
87.5°	9.9	6.7	3.2	3.2	1.6
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)