

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: P842869

Luminaire Tested: **14CZ2-39-SQR-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842869
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: 14CZ2-39-SQR-UNV-B35
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

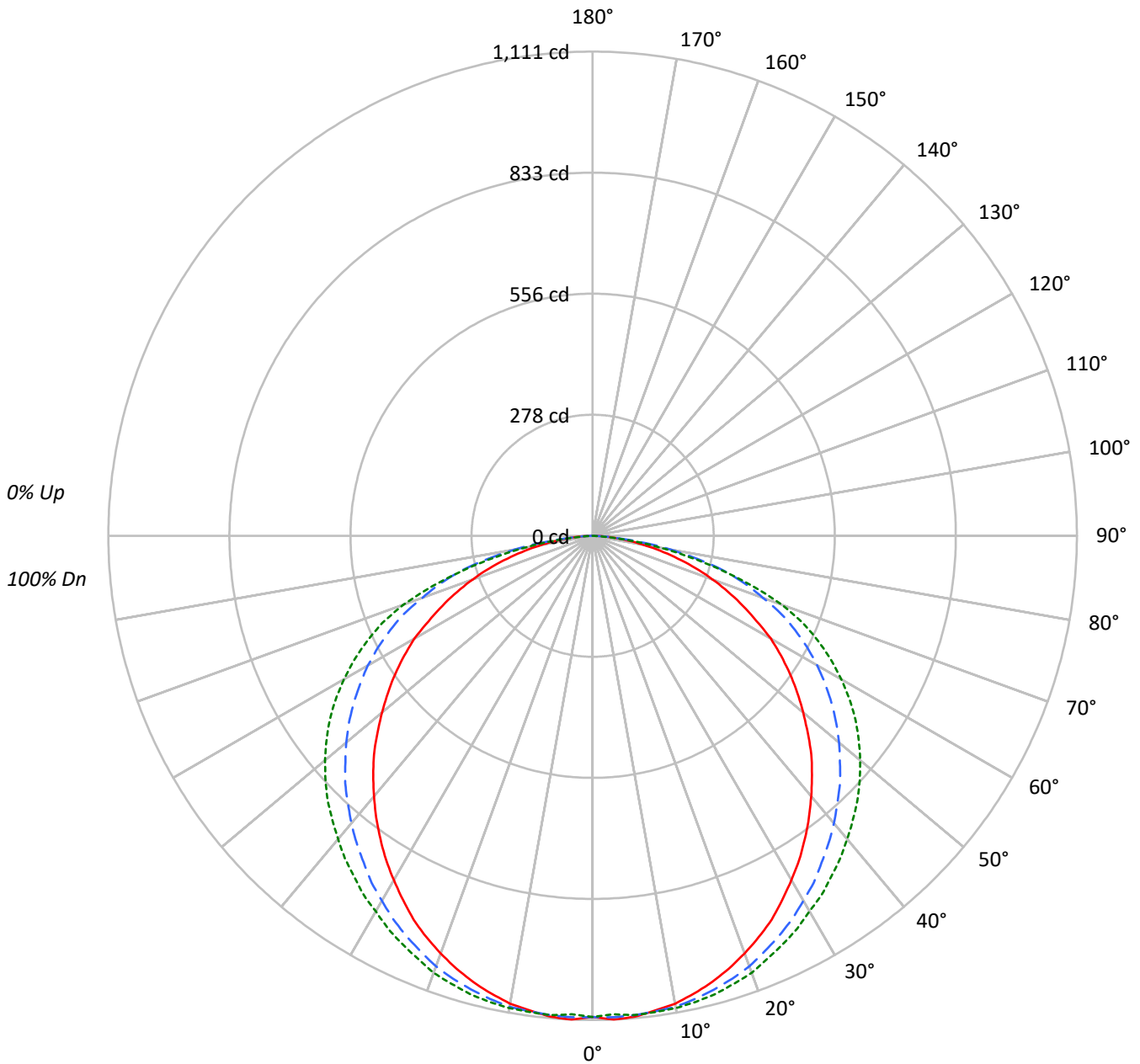
Lumens per Lamp: N/A
Luminaire Lumens: 3494.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 31
Input Voltage (V): NR
Input Current (A_{in}): 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: P842869

CATALOG NUMBER: 14CZ2-39-SQR-UNV-B35

Luminous Intensity Polar Plot





TEST NUMBER: P842869

CATALOG NUMBER: 14CZ2-39-SQR-UNV-B35

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83					83			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68					68			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56					56			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48					48			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41					41			
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35					35			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28					28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25					25			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3117	3117	3117
5°	3139	3129	3129
10°	3124	3145	3155
15°	3098	3149	3181
20°	3063	3158	3206
25°	3027	3153	3219
30°	2973	3151	3243
35°	2925	3155	3289
40°	2874	3173	3348
45°	2833	3205	3430
50°	2768	3240	3518
55°	2721	3293	3622
60°	2664	3361	3717
65°	2541	3422	3812
70°	2412	3429	3808
75°	2208	3419	3360
80°	1887	2919	2606
85°	1487	1652	972



TEST NUMBER: P842869

CATALOG NUMBER: 14CZ2-39-SQR-UNV-B35

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.0
10°-20°	303.1	8.7
20°-30°	463.6	13.3
30°-40°	568.2	16.3
40°-50°	611.1	17.5
50°-60°	587.2	16.8
60°-70°	489.0	14.0
70°-80°	300.1	8.6
80°-90°	66.8	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°	871.6	24.9
0°-40°	1439.8	41.2
0°-60°	2638.1	75.5
0°-90°	3494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1108	1097	1104	1104	1104	105
15°	1060	1057	1078	1085	1088	299
25°	972	981	1012	1025	1034	447
35°	849	870	916	940	954	531
45°	710	741	803	840	859	546
55°	553	600	669	715	736	494
65°	380	438	512	555	571	377
75°	202	264	314	312	308	215
85°	46	69	51	35	30	55
90°	0	0	0	0	0	



TEST NUMBER: P842869

CATALOG NUMBER: 14CZ2-39-SQR-UNV-B35

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104.2	1104.2	1104.2	1104.2	1104.2
2.5°	1111.1	1100.6	1105.9	1104.2	1098.9
5°	1107.7	1097.2	1104.2	1104.2	1104.2
7.5°	1098.9	1090.1	1100.6	1102.3	1102.3
10°	1090.1	1083.0	1097.2	1098.9	1100.6
12.5°	1075.9	1070.6	1088.4	1091.8	1095.2
15°	1060.1	1056.7	1077.7	1084.7	1088.4
17.5°	1040.8	1042.5	1065.4	1074.2	1077.7
20°	1019.6	1024.9	1051.3	1060.1	1067.2
22.5°	996.7	1003.7	1032.0	1042.5	1049.6
25°	972.0	980.8	1012.5	1024.9	1033.7
27.5°	942.0	956.2	991.5	1007.4	1016.2
30°	912.2	928.1	966.9	986.2	994.9
32.5°	882.2	899.8	943.9	963.2	977.4
35°	848.8	870.0	915.7	940.3	954.4
37.5°	815.4	840.0	889.3	917.4	933.2
40°	780.0	806.6	861.0	892.7	908.6
42.5°	744.9	774.9	831.2	866.4	883.9
45°	709.7	741.4	802.9	840.0	859.3
47.5°	669.2	708.0	769.5	811.7	831.2
50°	630.4	672.7	737.8	781.9	801.2
52.5°	591.7	635.8	704.4	750.2	769.5
55°	552.9	600.4	669.2	714.9	736.1
57.5°	512.4	561.7	632.2	679.7	699.0
60°	471.9	523.1	595.3	639.2	658.5
62.5°	424.3	484.3	554.8	598.7	616.3
65°	380.4	438.4	512.4	554.8	570.7
67.5°	336.4	396.2	468.4	507.2	521.2
70°	292.3	352.3	415.5	452.6	461.4
72.5°	248.4	308.1	368.1	389.1	385.7
75°	202.5	264.2	313.5	311.8	308.1
77.5°	158.6	218.4	248.4	235.9	230.8
80°	116.1	174.4	179.6	167.4	160.3
82.5°	79.3	124.9	112.7	98.6	91.5
85°	45.9	68.6	51.0	35.1	30.0
87.5°	19.3	17.6	5.4	5.4	3.4
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)