

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: P842809

Luminaire Tested: **14CZ2-20-SQR-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842809
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: 14CZ2-20-SQR-UNV-B35
Description: 1X4 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

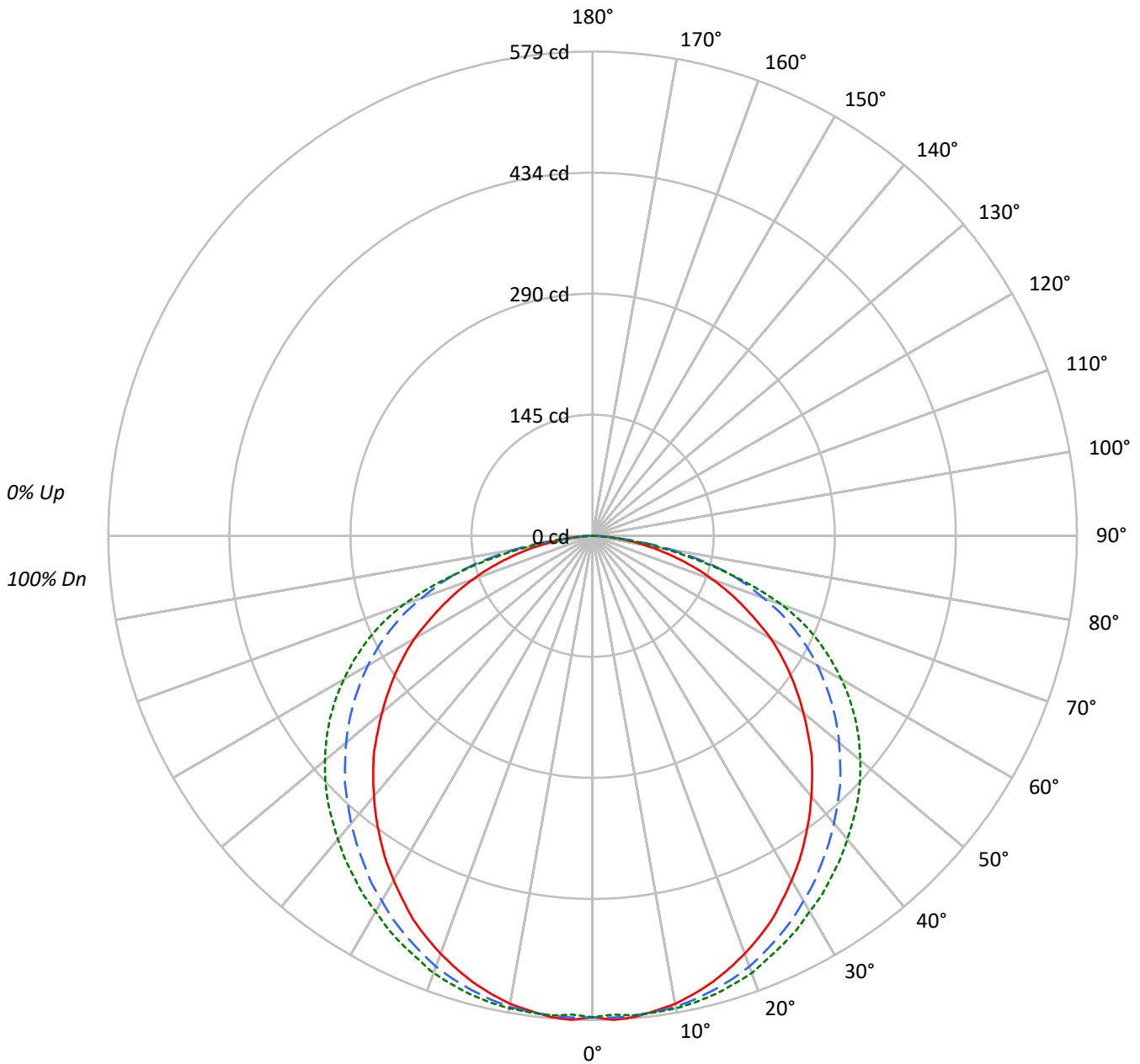
Lumens per Lamp: N/A
Luminaire Lumens: 1822.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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

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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	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°	1625	1625	1625
5°	1637	1632	1632
10°	1629	1640	1645
15°	1615	1642	1658
20°	1597	1647	1672
25°	1579	1644	1679
30°	1550	1643	1691
35°	1525	1645	1715
40°	1499	1654	1746
45°	1477	1671	1789
50°	1444	1689	1835
55°	1419	1717	1889
60°	1389	1752	1939
65°	1324	1785	1988
70°	1258	1788	1986
75°	1152	1783	1753
80°	985	1521	1359
85°	774	861	505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	3.0
10°-20°	158.1	8.7
20°-30°	241.7	13.3
30°-40°	296.3	16.3
40°-50°	318.7	17.5
50°-60°	306.2	16.8
60°-70°	255.0	14.0
70°-80°	156.5	8.6
80°-90°	34.9	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°	454.5	24.9
0°-40°	750.8	41.2
0°-60°	1375.7	75.5
0°-90°	1822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	578	572	576	576	576	55
15°	553	551	562	566	568	156
25°	507	512	528	534	539	233
35°	443	454	478	490	498	277
45°	370	387	419	438	448	285
55°	288	313	349	373	384	258
65°	198	229	267	289	298	197
75°	106	138	164	163	161	112
85°	24	36	27	18	16	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	575.8	575.8	575.8	575.8	575.8
2.5°	579.4	573.9	576.7	575.8	573.0
5°	577.6	572.1	575.8	575.8	575.8
7.5°	573.0	568.4	573.9	574.8	574.8
10°	568.4	564.8	572.1	573.0	573.9
12.5°	561.1	558.3	567.5	569.3	571.1
15°	552.8	551.0	562.0	565.6	567.5
17.5°	542.7	543.6	555.6	560.2	562.0
20°	531.7	534.5	548.2	552.8	556.5
22.5°	519.7	523.4	538.2	543.6	547.3
25°	506.9	511.5	528.0	534.5	539.1
27.5°	491.2	498.6	517.0	525.3	529.9
30°	475.7	484.0	504.2	514.2	518.8
32.5°	460.1	469.2	492.2	502.3	509.7
35°	442.6	453.7	477.5	490.3	497.7
37.5°	425.2	438.0	463.7	478.4	486.6
40°	406.7	420.6	449.0	465.5	473.8
42.5°	388.4	404.1	433.5	451.8	460.9
45°	370.1	386.6	418.7	438.0	448.1
47.5°	349.0	369.2	401.3	423.3	433.5
50°	328.8	350.8	384.7	407.8	417.8
52.5°	308.5	331.5	367.3	391.2	401.3
55°	288.3	313.1	349.0	372.8	383.8
57.5°	267.2	292.9	329.6	354.5	364.5
60°	246.1	272.8	310.4	333.3	343.4
62.5°	221.3	252.5	289.3	312.2	321.4
65°	198.3	228.6	267.2	289.3	297.6
67.5°	175.4	206.6	244.3	264.5	271.8
70°	152.4	183.7	216.7	236.0	240.6
72.5°	129.5	160.7	192.0	202.9	201.1
75°	105.6	137.8	163.5	162.6	160.7
77.5°	82.7	113.9	129.5	123.0	120.3
80°	60.6	91.0	93.6	87.3	83.6
82.5°	41.3	65.1	58.8	51.4	47.7
85°	23.9	35.8	26.6	18.3	15.6
87.5°	10.1	9.2	2.8	2.8	1.8
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)