

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: P842854

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842854
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: 14CZ2-35-SQR-UNV-B35
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

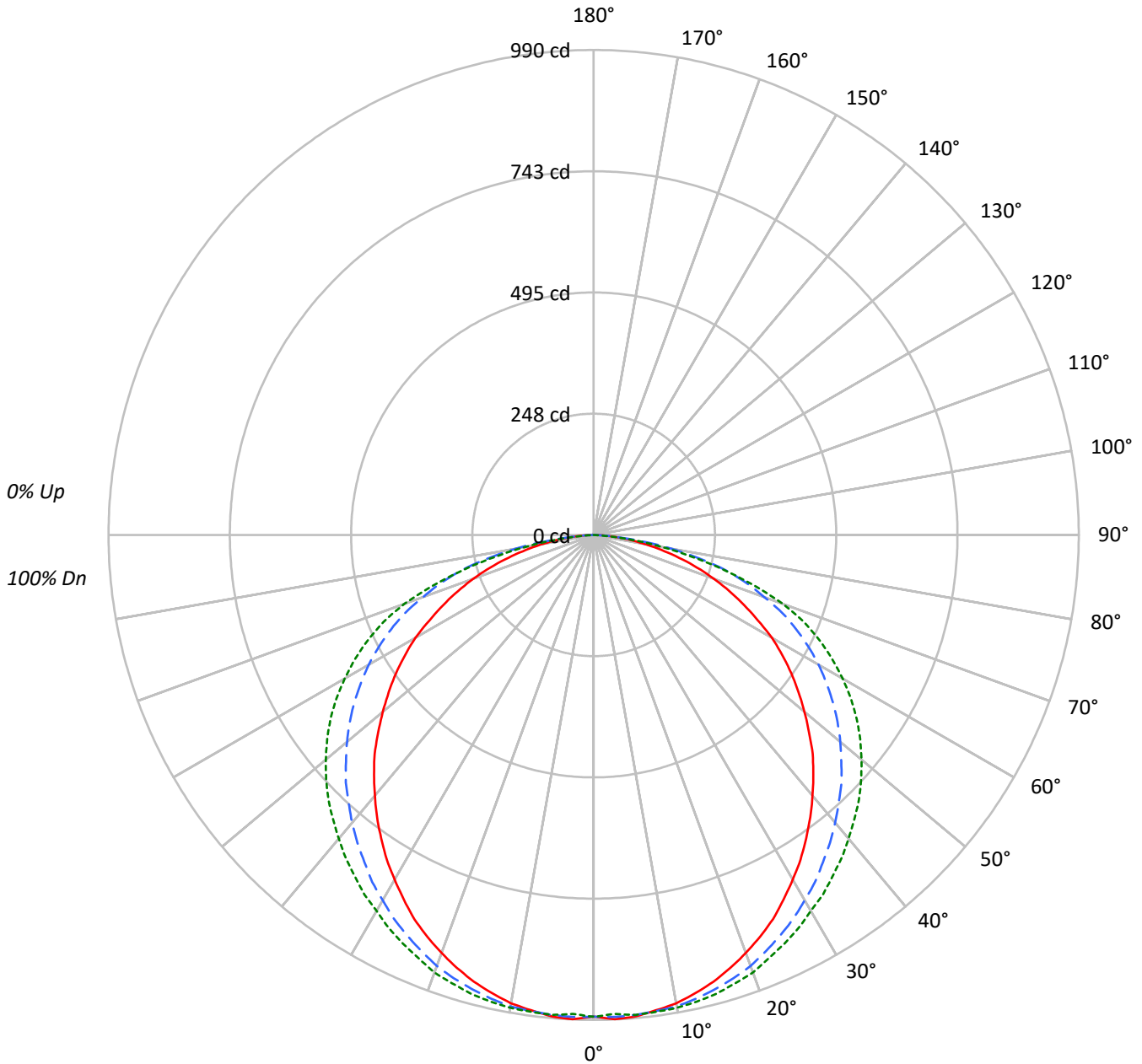
Lumens per Lamp: N/A
Luminaire Lumens: 3112.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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									
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°	2776	2776	2776
5°	2795	2787	2787
10°	2783	2801	2810
15°	2759	2805	2833
20°	2728	2813	2855
25°	2696	2809	2868
30°	2648	2807	2888
35°	2605	2810	2929
40°	2560	2826	2982
45°	2523	2855	3055
50°	2466	2886	3134
55°	2423	2934	3226
60°	2373	2993	3311
65°	2263	3048	3395
70°	2148	3054	3391
75°	1967	3045	2994
80°	1681	2599	2321
85°	1321	1470	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	3.0
10°-20°	270.0	8.7
20°-30°	412.9	13.3
30°-40°	506.1	16.3
40°-50°	544.3	17.5
50°-60°	523.0	16.8
60°-70°	435.5	14.0
70°-80°	267.3	8.6
80°-90°	59.5	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°	776.3	24.9
0°-40°	1282.4	41.2
0°-60°	2349.6	75.5
0°-90°	3112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	987	977	984	984	984	94
15°	944	941	960	966	969	266
25°	866	874	902	913	921	398
35°	756	775	816	838	850	473
45°	632	660	715	748	765	486
55°	492	535	596	637	656	440
65°	339	390	456	494	508	336
75°	180	235	279	278	274	191
85°	41	61	45	31	27	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.5	983.5	983.5	983.5	983.5
2.5°	989.6	980.3	985.0	983.5	978.7
5°	986.6	977.2	983.5	983.5	983.5
7.5°	978.7	970.9	980.3	981.8	981.8
10°	970.9	964.6	977.2	978.7	980.3
12.5°	958.3	953.5	969.4	972.4	975.5
15°	944.2	941.1	959.8	966.1	969.4
17.5°	927.0	928.5	949.0	956.8	959.8
20°	908.1	912.9	936.4	944.2	950.5
22.5°	887.7	894.0	919.2	928.5	934.8
25°	865.7	873.6	901.8	912.9	920.7
27.5°	839.0	851.6	883.1	897.2	905.1
30°	812.5	826.6	861.2	878.3	886.2
32.5°	785.8	801.4	840.7	857.9	870.5
35°	756.0	774.9	815.5	837.5	850.1
37.5°	726.2	748.2	792.1	817.1	831.2
40°	694.7	718.4	766.9	795.1	809.2
42.5°	663.4	690.2	740.3	771.6	787.3
45°	632.1	660.4	715.2	748.2	765.4
47.5°	596.1	630.6	685.4	723.0	740.3
50°	561.5	599.1	657.1	696.5	713.6
52.5°	527.0	566.3	627.4	668.2	685.4
55°	492.4	534.8	596.1	636.7	655.6
57.5°	456.3	500.2	563.0	605.4	622.6
60°	420.3	465.9	530.2	569.3	586.5
62.5°	377.9	431.3	494.1	533.3	548.9
65°	338.8	390.5	456.3	494.1	508.3
67.5°	299.7	352.9	417.2	451.8	464.2
70°	260.3	313.8	370.1	403.1	410.9
72.5°	221.2	274.5	327.9	346.6	343.5
75°	180.4	235.3	279.2	277.7	274.5
77.5°	141.2	194.5	221.2	210.1	205.6
80°	103.4	155.4	159.9	149.1	142.8
82.5°	70.6	111.3	100.4	87.8	81.5
85°	40.8	61.1	45.4	31.3	26.7
87.5°	17.2	15.7	4.8	4.8	3.1
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)