

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: P842800

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer:
Product Line:
Catalog Number: 14CZ2-20-HRP-UNV-B35
Description: 1X4 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

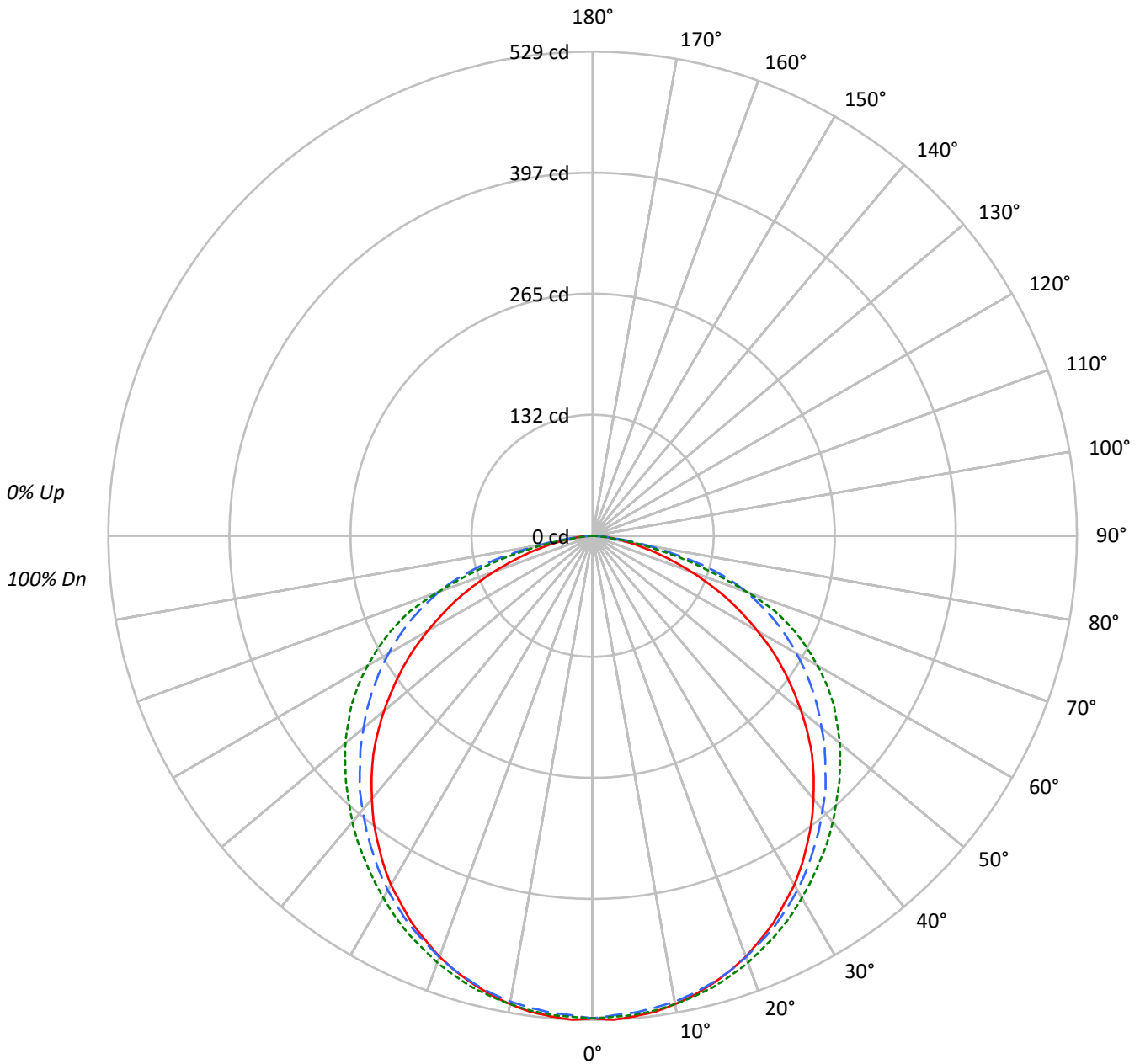
Lumens per Lamp: N/A
Luminaire Lumens: 1553.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1488	1488	1488
5°	1493	1482	1489
10°	1489	1481	1489
15°	1480	1477	1491
20°	1470	1471	1491
25°	1454	1466	1490
30°	1436	1458	1490
35°	1410	1447	1493
40°	1382	1440	1504
45°	1353	1435	1521
50°	1306	1434	1548
55°	1250	1442	1581
60°	1174	1453	1602
65°	1083	1467	1611
70°	943	1471	1483
75°	778	1370	1199
80°	611	985	801
85°	476	379	188



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	3.2
10°-20°	143.3	9.2
20°-30°	217.6	14.0
30°-40°	263.6	17.0
40°-50°	277.8	17.9
50°-60°	259.3	16.7
60°-70°	207.2	13.3
70°-80°	114.1	7.3
80°-90°	20.1	1.3
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°	410.8	26.5
0°-40°	674.4	43.4
0°-60°	1211.6	78.0
0°-90°	1553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	527	527	527	527	527	
5°	527	526	523	526	526	50
15°	506	506	506	510	510	143
25°	467	468	471	478	478	215
35°	409	413	420	431	433	256
45°	339	345	359	376	381	261
55°	254	267	293	314	321	227
65°	162	183	220	238	241	160
75°	71	102	126	113	110	77
85°	15	18	12	7	6	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	527.3	527.3	527.3	527.3	527.3
2.5°	529.3	527.8	524.5	527.3	526.0
5°	527.0	525.5	523.0	526.5	525.5
7.5°	524.5	522.5	520.1	524.0	523.0
10°	519.6	518.1	516.7	520.1	519.6
12.5°	513.7	513.3	511.8	515.7	515.2
15°	506.5	506.5	505.5	510.3	510.3
17.5°	498.5	498.1	498.5	504.0	503.5
20°	489.3	489.3	489.8	496.2	496.2
22.5°	478.0	478.5	480.0	487.8	487.3
25°	466.9	467.8	470.7	477.5	478.5
27.5°	453.2	455.7	459.0	467.3	468.3
30°	440.5	441.9	447.3	455.2	457.0
32.5°	425.4	428.2	434.2	442.9	445.4
35°	409.2	413.2	419.9	430.7	433.2
37.5°	393.1	396.6	405.9	417.0	421.4
40°	375.1	380.9	390.7	403.4	408.2
42.5°	357.4	363.3	376.6	389.7	394.1
45°	338.9	345.3	359.4	375.6	380.9
47.5°	318.4	325.8	343.8	360.9	366.7
50°	297.3	306.6	326.6	345.8	352.6
52.5°	275.5	287.1	310.1	330.1	336.5
55°	254.0	266.6	293.0	313.5	321.3
57.5°	232.0	245.7	275.5	298.8	303.3
60°	208.0	224.7	257.3	277.8	283.8
62.5°	184.6	203.7	238.8	258.3	263.2
65°	162.1	182.7	219.7	237.8	241.2
67.5°	137.7	162.1	198.7	215.4	216.3
70°	114.3	142.6	178.2	186.0	179.7
72.5°	91.3	121.6	154.4	147.9	142.6
75°	71.3	102.1	125.6	112.8	109.9
77.5°	52.8	83.5	89.8	83.1	77.6
80°	37.6	65.9	60.6	51.8	49.3
82.5°	25.8	41.5	33.2	25.8	22.5
85°	14.7	18.5	11.7	7.3	5.8
87.5°	6.3	4.4	2.5	2.0	2.0
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)