

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: P842887

Luminaire Tested: **14CZ2-44-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer:
Product Line:
Catalog Number: 14CZ2-44-UNV-B35
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

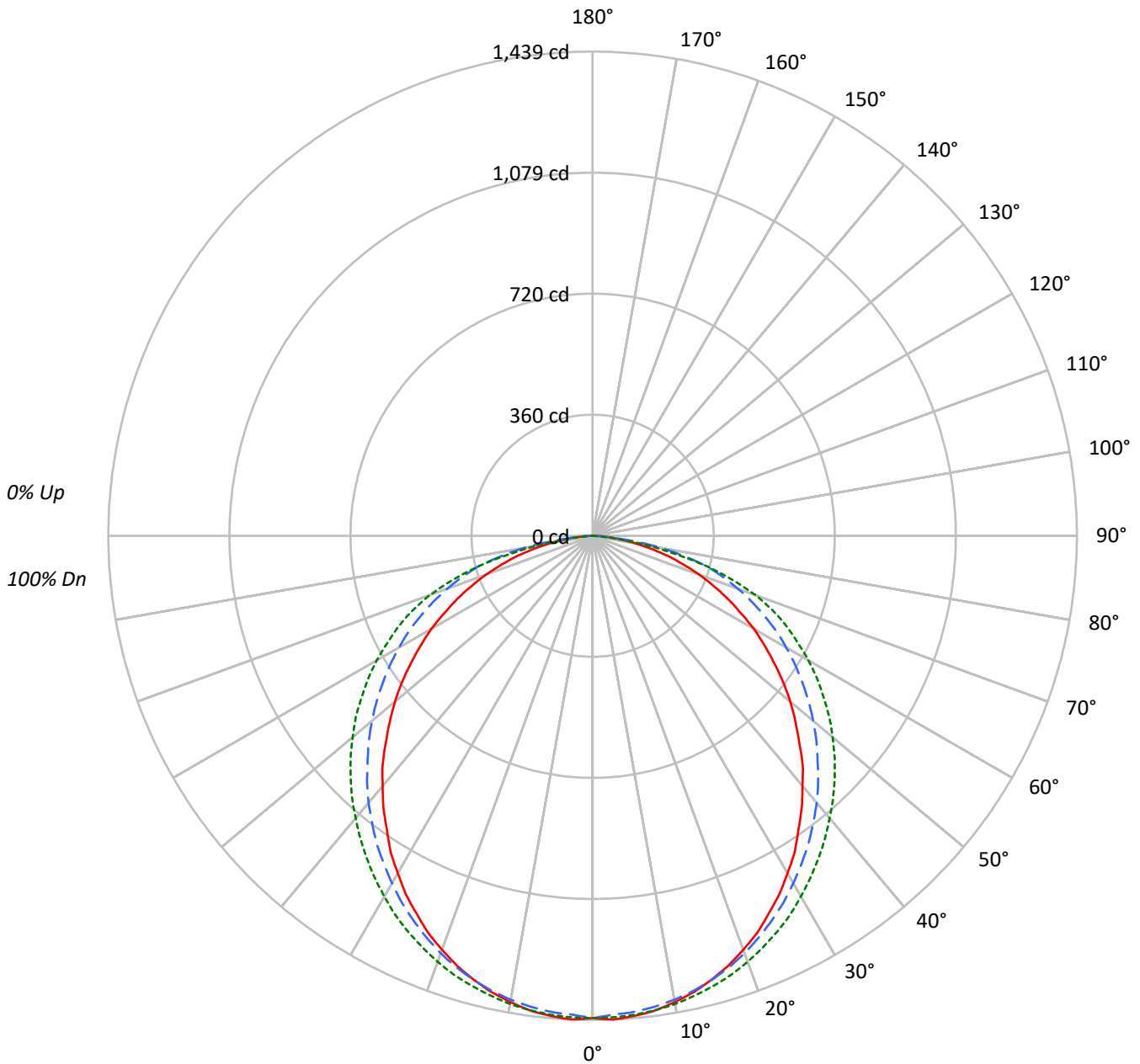
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4161.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	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	39	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4046	4046	4046
5°	4059	4025	4049
10°	4034	4013	4050
15°	3991	3994	4048
20°	3932	3966	4047
25°	3858	3927	4043
30°	3774	3886	4034
35°	3674	3852	4031
40°	3576	3816	4038
45°	3467	3774	4059
50°	3365	3757	4086
55°	3237	3745	4123
60°	3122	3751	4180
65°	2961	3762	4245
70°	2780	3791	4241
75°	2518	3825	3836
80°	2068	3301	2728
85°	1532	1564	628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	3.3
10°-20°	387.5	9.3
20°-30°	583.7	14.0
30°-40°	700.5	16.8
40°-50°	730.1	17.5
50°-60°	675.9	16.2
60°-70°	546.1	13.1
70°-80°	333.0	8.0
80°-90°	68.7	1.7
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°	1106.8	26.6
0°-40°	1807.3	43.4
0°-60°	3213.2	77.2
0°-90°	4161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1432	1429	1420	1431	1429	136
15°	1366	1367	1367	1385	1385	385
25°	1239	1246	1261	1292	1298	571
35°	1066	1083	1118	1159	1170	668
45°	868	894	945	998	1017	671
55°	658	692	761	820	838	589
65°	443	487	563	620	636	439
75°	231	282	351	356	352	243
85°	47	70	48	27	19	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.5	1433.5	1433.5	1433.5	1433.5
2.5°	1439.1	1434.5	1424.3	1434.5	1432.5
5°	1432.5	1428.9	1420.5	1430.7	1428.9
7.5°	1423.3	1419.5	1412.0	1424.3	1422.3
10°	1407.4	1405.7	1400.0	1414.1	1413.1
12.5°	1389.1	1388.0	1385.2	1401.1	1400.0
15°	1365.8	1366.6	1366.6	1385.2	1385.2
17.5°	1339.8	1341.5	1345.4	1365.8	1368.6
20°	1309.1	1312.9	1320.3	1343.6	1347.2
22.5°	1277.7	1280.5	1291.5	1319.3	1323.2
25°	1238.6	1246.0	1260.8	1292.5	1298.1
27.5°	1201.6	1208.0	1228.4	1260.8	1270.3
30°	1157.9	1168.1	1192.4	1227.6	1237.8
32.5°	1116.3	1127.2	1155.1	1195.9	1205.1
35°	1066.2	1082.8	1118.0	1158.9	1169.9
37.5°	1020.7	1036.3	1076.4	1120.8	1133.9
40°	970.4	990.1	1035.5	1082.8	1095.8
42.5°	924.2	942.6	991.9	1040.1	1057.8
45°	868.5	894.5	945.4	998.2	1016.9
47.5°	817.4	843.4	901.9	958.4	975.3
50°	766.3	794.1	855.5	913.9	930.5
52.5°	713.4	743.3	809.0	867.5	887.1
55°	657.7	692.2	760.9	820.2	837.8
57.5°	604.9	640.1	713.4	773.7	791.3
60°	553.0	589.3	664.4	721.9	740.5
62.5°	495.5	538.2	616.1	672.6	686.6
65°	443.4	487.1	563.2	619.7	635.5
67.5°	388.8	436.0	512.1	564.0	579.1
70°	336.9	386.0	459.3	507.5	513.9
72.5°	281.2	331.3	405.4	436.0	436.0
75°	230.9	282.0	350.7	356.3	351.7
77.5°	176.3	233.0	277.4	266.2	255.2
80°	127.2	182.9	203.1	182.9	167.8
82.5°	85.3	132.6	122.4	97.3	86.3
85°	47.3	70.5	48.3	26.8	19.4
87.5°	17.6	15.8	4.6	4.6	4.6
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)