

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: METALUX

Report Number: P881104

Luminaire Tested: **22CZ2-34VHE-UNV-B35**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P881104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474795)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34VHE-UNV-B35
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

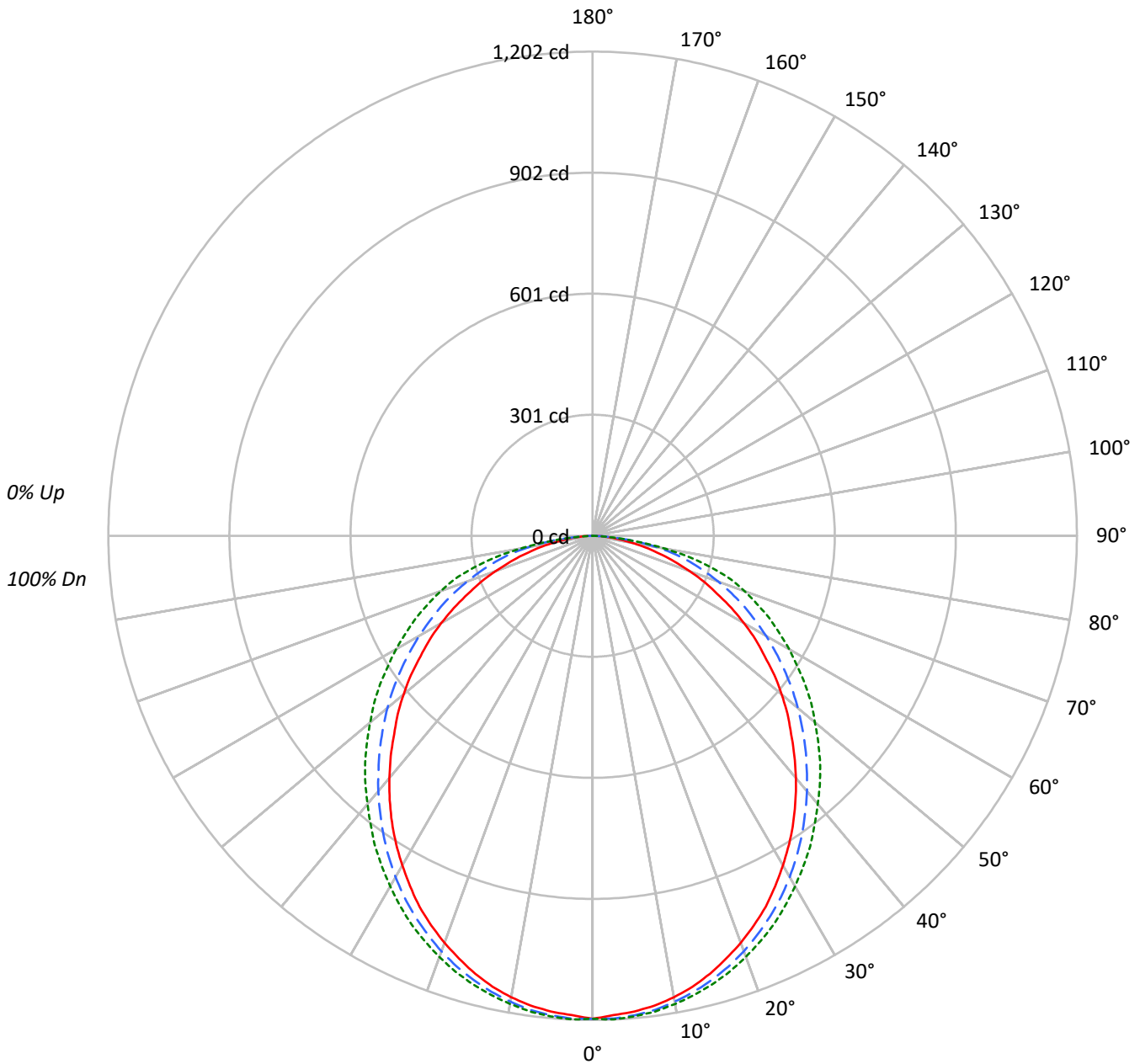
Lumens per Lamp: N/A
Luminaire Lumens: 3306.0 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27
Input Voltage (V): NR
Input Current (Ain): 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: P881104

CATALOG NUMBER: 22CZ2-34VHE-UNV-B35

Luminous Intensity Polar Plot





TEST NUMBER: P881104

CATALOG NUMBER: 22CZ2-34VHE-UNV-B35

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	91	88	90	87	85	83																			
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3402	3402	3402
5°	3377	3403	3411
10°	3352	3384	3400
15°	3307	3354	3384
20°	3247	3314	3359
25°	3183	3264	3332
30°	3095	3205	3292
35°	3008	3137	3260
40°	2907	3067	3220
45°	2795	2997	3204
50°	2705	2936	3180
55°	2578	2872	3186
60°	2462	2823	3196
65°	2289	2786	3246
70°	2116	2747	3327
75°	1892	2735	3348
80°	1587	2592	2922
85°	1231	1778	1660



TEST NUMBER: P881104

CATALOG NUMBER: 22CZ2-34VHE-UNV-B35

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	3.4
10°-20°	321.5	9.7
20°-30°	479.4	14.5
30°-40°	566.0	17.1
40°-50°	576.8	17.4
50°-60°	520.2	15.7
60°-70°	408.9	12.4
70°-80°	256.0	7.7
80°-90°	63.9	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°	914.3	27.7
0°-40°	1480.2	44.8
0°-60°	2577.3	78.0
0°-90°	3306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3306.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1186	1188	1195	1198	1198	112
15°	1126	1130	1142	1150	1152	317
25°	1017	1024	1042	1058	1064	467
35°	868	880	906	931	941	543
45°	697	712	747	783	798	539
55°	521	537	581	625	644	468
65°	341	362	415	461	484	340
75°	173	198	250	294	305	183
85°	38	48	55	55	51	45
90°	0	0	0	0	0	



TEST NUMBER: P881104

CATALOG NUMBER: 22CZ2-34VHE-UNV-B35

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1199.0	1199.0	1199.0	1199.0	1199.0
2.5°	1191.2	1194.1	1199.7	1201.8	1201.8
5°	1185.6	1188.4	1194.8	1197.5	1197.5
7.5°	1176.5	1179.3	1187.1	1190.5	1191.2
10°	1163.3	1166.8	1174.4	1180.1	1180.1
12.5°	1146.6	1150.0	1159.8	1166.8	1167.4
15°	1125.6	1130.4	1141.7	1150.0	1152.1
17.5°	1101.1	1108.8	1121.3	1131.9	1134.0
20°	1075.2	1082.9	1097.5	1109.4	1112.4
22.5°	1046.6	1053.6	1071.0	1085.8	1089.2
25°	1016.6	1024.2	1042.5	1058.5	1064.2
27.5°	980.9	990.0	1011.7	1029.8	1035.5
30°	944.6	955.8	978.2	998.4	1004.7
32.5°	907.6	918.1	943.1	964.8	973.3
35°	868.4	879.6	905.5	930.6	941.2
37.5°	827.2	838.4	866.4	894.9	904.7
40°	784.7	797.9	828.0	858.6	869.2
42.5°	741.4	755.2	786.6	821.0	834.8
45°	696.6	711.9	746.9	783.2	798.5
47.5°	656.0	668.6	705.0	744.8	759.4
50°	612.7	624.6	665.1	705.0	720.3
52.5°	568.7	580.0	623.3	665.1	684.0
55°	521.2	537.3	580.6	625.2	644.1
57.5°	479.3	494.0	538.8	584.0	602.3
60°	433.9	449.2	497.4	543.6	563.2
62.5°	388.4	405.2	454.1	503.7	522.0
65°	340.9	361.9	415.0	461.1	483.5
67.5°	300.5	320.7	373.1	421.3	440.9
70°	255.0	278.8	331.1	380.1	401.0
72.5°	212.4	236.2	289.9	338.9	359.8
75°	172.6	198.4	249.5	294.1	305.4
77.5°	134.2	158.6	209.6	235.5	247.4
80°	97.1	120.8	158.6	176.1	178.8
82.5°	65.6	86.0	107.7	112.5	109.8
85°	37.8	48.2	54.6	54.6	51.0
87.5°	15.3	15.3	13.4	8.3	4.9
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)