

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: P842945

Luminaire Tested: **22CZ2-34HE-SQR-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387672)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-SQR-UNV-B40
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

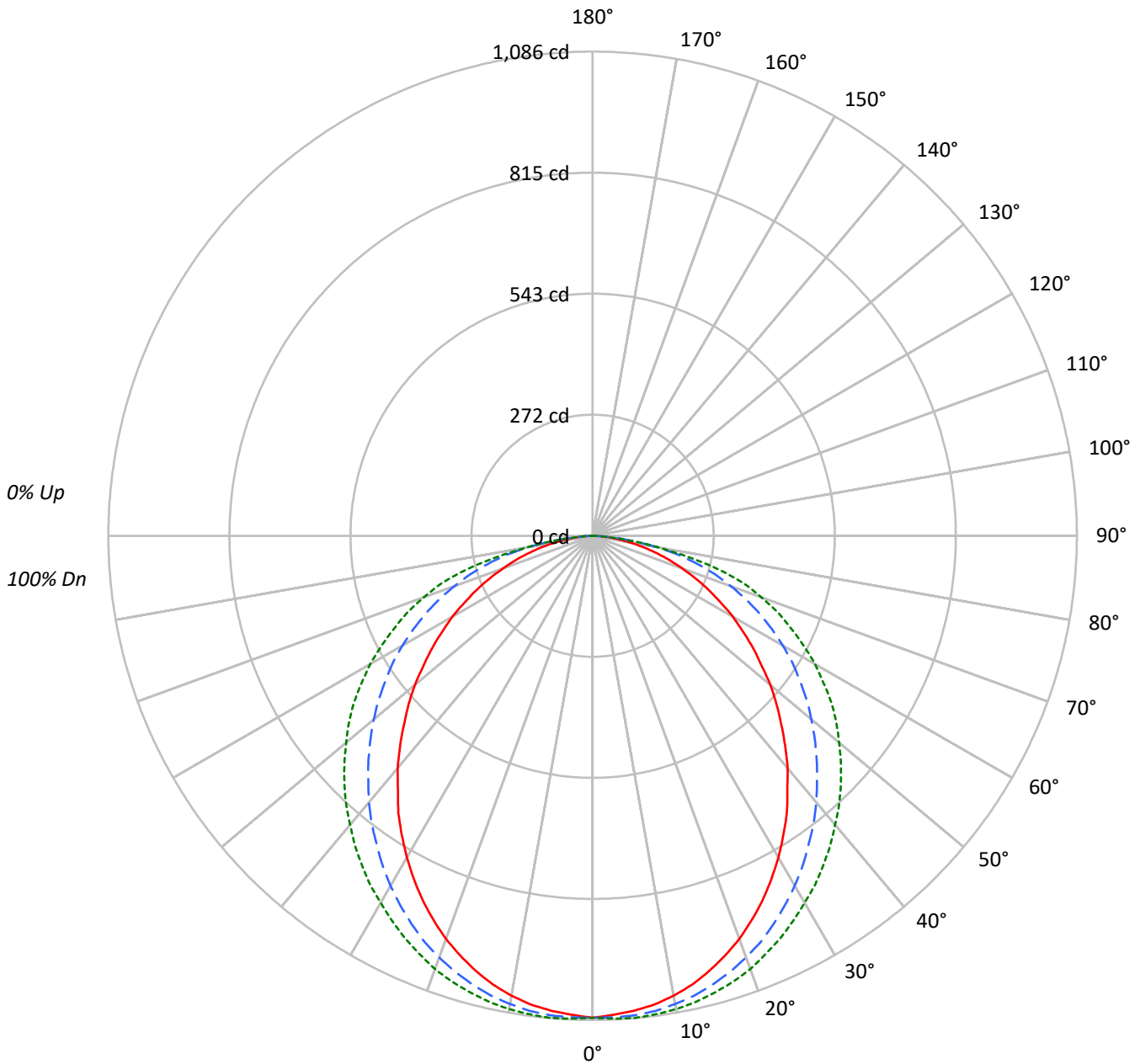
Lumens per Lamp: N/A
Luminaire Lumens: 3095.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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

TEST NUMBER: P842945

CATALOG NUMBER: 22CZ2-34HE-SQR-UNV-B40

Luminous Intensity Polar Plot





TEST NUMBER: P842945

CATALOG NUMBER: 22CZ2-34HE-SQR-UNV-B40

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	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	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	43																			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3068	3068	3068
5°	3046	3075	3092
10°	3018	3073	3106
15°	2969	3060	3115
20°	2905	3039	3123
25°	2824	3008	3118
30°	2729	2970	3114
35°	2631	2926	3124
40°	2520	2890	3134
45°	2399	2853	3159
50°	2295	2827	3184
55°	2173	2805	3234
60°	2059	2793	3268
65°	1924	2772	3294
70°	1768	2730	3339
75°	1595	2659	3221
80°	1369	2351	2427
85°	1104	1390	1104



TEST NUMBER: P842945

CATALOG NUMBER: 22CZ2-34HE-SQR-UNV-B40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	3.3
10°-20°	293.0	9.5
20°-30°	440.1	14.2
30°-40°	524.9	17.0
40°-50°	542.7	17.5
50°-60°	499.0	16.1
60°-70°	397.2	12.8
70°-80°	242.7	7.8
80°-90°	52.8	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°	835.7	27.0
0°-40°	1360.6	44.0
0°-60°	2402.2	77.6
0°-90°	3095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3095.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1069	1072	1080	1084	1086	101
15°	1011	1022	1042	1056	1060	285
25°	902	924	961	987	996	415
35°	760	792	845	889	902	474
45°	598	640	711	768	787	462
55°	439	488	567	632	654	393
65°	286	335	413	470	491	284
75°	146	188	242	285	294	155
85°	34	41	43	37	34	39
90°	0	0	0	0	0	



TEST NUMBER: P842945

CATALOG NUMBER: 22CZ2-34HE-SQR-UNV-B40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1081.1	1081.1	1081.1	1081.1	1081.1
2.5°	1075.2	1076.8	1081.1	1084.0	1084.0
5°	1069.3	1072.3	1079.7	1084.0	1085.6
7.5°	1060.5	1065.0	1075.2	1081.1	1082.6
10°	1047.4	1053.3	1066.4	1075.2	1078.1
12.5°	1031.1	1039.9	1056.2	1067.9	1070.9
15°	1010.6	1022.3	1041.5	1056.2	1060.5
17.5°	987.1	1001.7	1025.3	1042.9	1048.8
20°	962.2	976.9	1006.3	1026.8	1034.1
22.5°	932.8	951.8	985.7	1009.2	1015.1
25°	901.9	924.0	960.6	987.1	995.9
27.5°	868.2	894.6	934.2	966.5	973.9
30°	832.9	860.7	906.4	941.6	950.4
32.5°	796.1	828.4	877.0	916.6	928.3
35°	759.5	791.8	844.7	888.7	901.9
37.5°	716.8	755.0	813.7	859.4	875.4
40°	680.2	716.8	780.1	830.0	846.1
42.5°	639.0	678.6	744.8	799.0	818.2
45°	597.9	640.4	710.9	768.3	787.3
47.5°	559.7	602.2	675.7	736.0	755.0
50°	520.0	564.0	640.4	702.1	721.3
52.5°	477.5	525.8	605.2	666.9	689.0
55°	439.3	487.7	567.0	631.6	653.7
57.5°	399.5	449.5	531.7	593.4	614.0
60°	362.9	411.3	492.2	552.3	575.8
62.5°	323.1	373.1	452.4	511.2	533.3
65°	286.5	334.9	412.8	470.0	490.6
67.5°	249.7	298.3	371.7	426.0	449.5
70°	213.1	261.5	329.0	381.9	402.5
72.5°	180.8	223.3	287.9	336.5	355.5
75°	145.5	188.0	242.5	285.0	293.8
77.5°	113.2	151.4	196.8	216.0	219.0
80°	83.8	113.2	143.9	148.5	148.5
82.5°	55.8	77.9	89.7	91.1	89.7
85°	33.9	41.1	42.7	36.8	33.9
87.5°	11.8	11.8	7.4	4.5	1.6
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)