

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: P843034

Luminaire Tested: **24CZ2-35HE-SQR-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35HE-SQR-UNV-B35
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

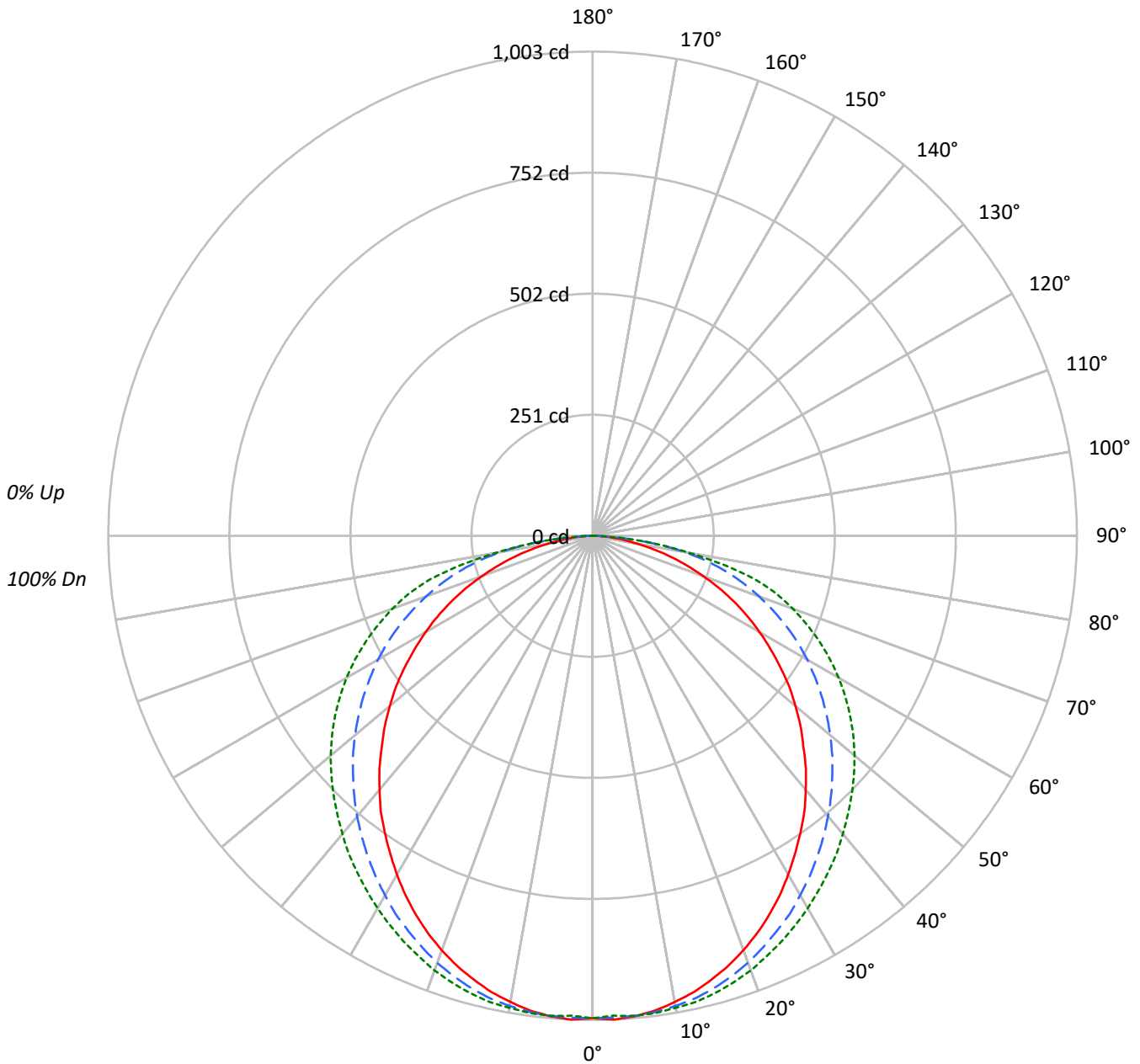
Lumens per Lamp: N/A
Luminaire Lumens: 3126.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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: P843034

CATALOG NUMBER: 24CZ2-35HE-SQR-UNV-B35

Luminous Intensity Polar Plot





TEST NUMBER: P843034

CATALOG NUMBER: 24CZ2-35HE-SQR-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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	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°	1410	1410	1410
5°	1416	1414	1414
10°	1405	1417	1423
15°	1391	1418	1433
20°	1372	1414	1439
25°	1349	1407	1444
30°	1321	1401	1452
35°	1293	1398	1465
40°	1265	1398	1486
45°	1232	1401	1515
50°	1203	1410	1555
55°	1169	1425	1603
60°	1128	1448	1661
65°	1079	1475	1731
70°	1001	1512	1819
75°	906	1565	1903
80°	763	1569	1635
85°	585	1185	1185



TEST NUMBER: P843034

CATALOG NUMBER: 24CZ2-35HE-SQR-UNV-B35

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	3.0
10°-20°	272.9	8.7
20°-30°	414.5	13.3
30°-40°	504.2	16.1
40°-50°	536.8	17.2
50°-60°	511.3	16.4
60°-70°	427.5	13.7
70°-80°	285.1	9.1
80°-90°	78.9	2.5
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°	782.3	25.0
0°-40°	1286.4	41.2
0°-60°	2334.5	74.7
0°-90°	3126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3126.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	999	993	998	998	998	95
15°	952	954	970	978	981	268
25°	866	877	903	919	927	399
35°	750	772	811	838	850	470
45°	617	650	702	741	759	477
55°	475	516	579	630	651	425
65°	323	370	442	496	518	319
75°	166	219	287	336	349	176
85°	36	67	73	72	73	44
90°	0	0	0	0	0	



TEST NUMBER: P843034

CATALOG NUMBER: 24CZ2-35HE-SQR-UNV-B35

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.2	999.2	999.2	999.2	999.2
2.5°	1003.3	996.1	999.2	999.2	995.1
5°	999.2	993.0	998.2	998.2	998.2
7.5°	992.1	986.8	995.1	997.2	997.2
10°	980.7	978.6	989.0	992.1	993.0
12.5°	968.3	967.2	981.7	985.8	989.0
15°	951.7	953.8	970.3	977.6	980.7
17.5°	934.2	938.3	956.9	967.2	970.3
20°	913.6	919.7	941.5	951.7	958.0
22.5°	890.9	900.2	922.8	935.2	942.4
25°	866.1	877.4	903.2	918.7	927.0
27.5°	839.3	853.7	883.7	901.1	909.4
30°	810.3	826.8	859.9	880.6	890.9
32.5°	780.4	800.0	836.2	858.8	871.2
35°	750.4	772.2	811.4	838.2	850.5
37.5°	720.5	742.1	785.6	814.4	830.0
40°	686.5	712.2	758.8	790.7	806.3
42.5°	653.5	681.2	730.9	765.9	782.5
45°	617.2	650.4	701.9	741.2	758.8
47.5°	584.2	617.2	673.0	714.4	733.9
50°	548.1	583.2	642.1	687.5	708.2
52.5°	513.0	549.2	611.1	659.6	680.3
55°	474.9	516.1	579.1	629.7	651.3
57.5°	436.7	481.1	546.0	598.7	620.5
60°	399.5	444.8	513.0	565.7	588.4
62.5°	362.3	407.7	478.9	532.6	554.3
65°	323.0	370.5	441.8	496.5	518.2
67.5°	283.9	333.4	404.6	459.3	480.0
70°	242.5	295.3	366.5	420.2	440.8
72.5°	204.4	257.0	327.2	379.9	399.5
75°	166.2	218.8	287.0	335.5	348.9
77.5°	129.1	181.6	242.5	274.6	277.7
80°	93.9	143.5	193.0	202.3	201.2
82.5°	62.9	107.3	133.2	134.2	137.2
85°	36.1	67.1	73.2	72.3	73.2
87.5°	14.5	23.7	20.7	15.4	15.4
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)