

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: P732307

Luminaire Tested: **24CZ2-50-SQR-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732307
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: 24CZ2-50-SQR-B2750-W2D-3000K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

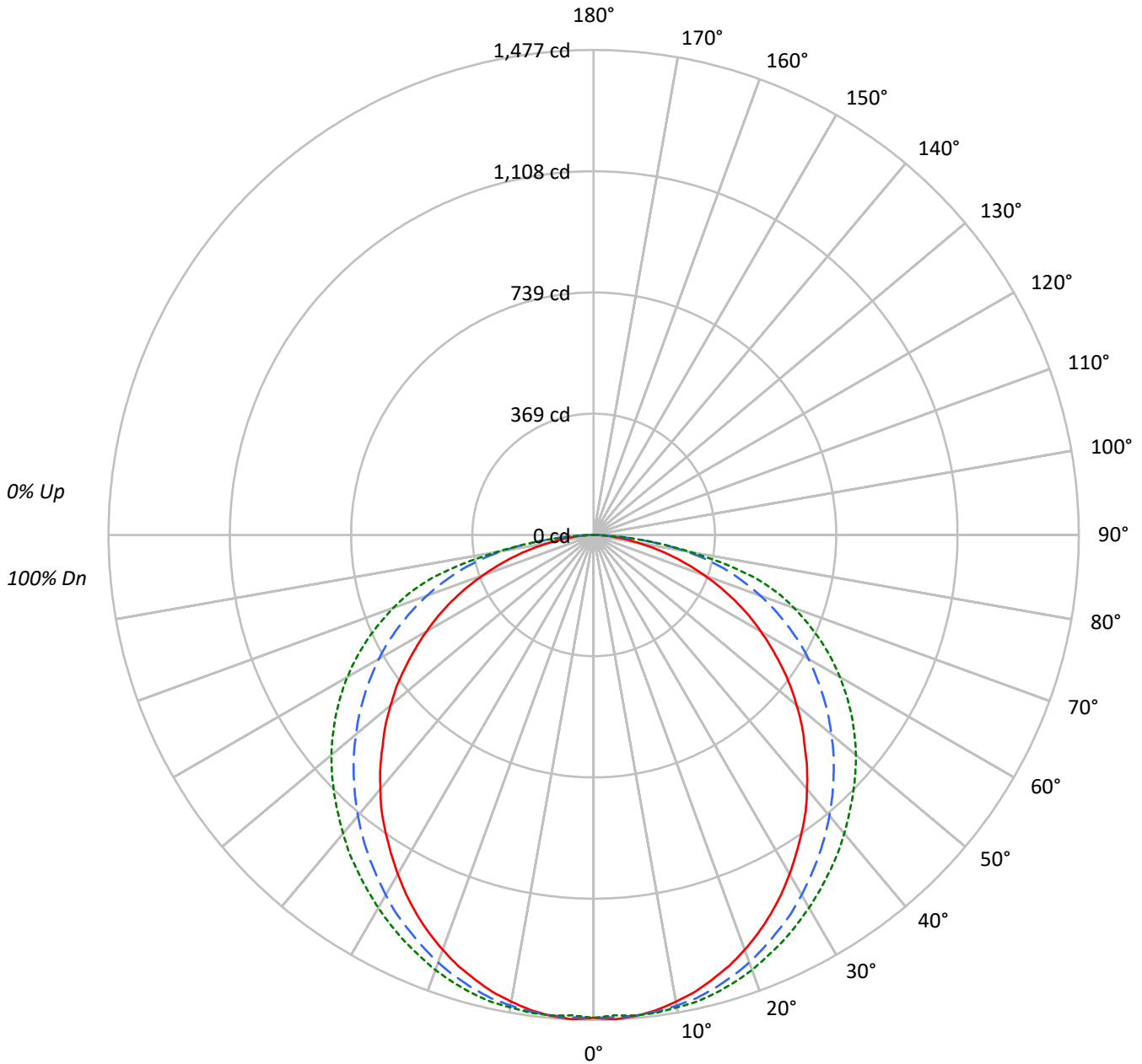
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4601.0 lumens
Efficiency: N/A
Efficacy: 115.0 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): 40
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: P732307
CATALOG NUMBER: 24CZ2-50-SQR-B2750-W2D-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P732307

CATALOG NUMBER: 24CZ2-50-SQR-B2750-W2D-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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°	2076	2076	2076
5°	2083	2081	2081
10°	2069	2086	2094
15°	2047	2087	2109
20°	2019	2081	2118
25°	1985	2070	2125
30°	1944	2063	2137
35°	1903	2058	2157
40°	1862	2058	2186
45°	1813	2062	2229
50°	1771	2075	2289
55°	1720	2097	2359
60°	1660	2131	2444
65°	1588	2171	2547
70°	1473	2226	2677
75°	1334	2303	2801
80°	1123	2309	2407
85°	860	1746	1746



TEST NUMBER: P732307

CATALOG NUMBER: 24CZ2-50-SQR-B2750-W2D-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	3.0
10°-20°	401.7	8.7
20°-30°	610.1	13.3
30°-40°	742.1	16.1
40°-50°	790.1	17.2
50°-60°	752.5	16.4
60°-70°	629.3	13.7
70°-80°	419.6	9.1
80°-90°	116.1	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°	1151.4	25.0
0°-40°	1893.4	41.2
0°-60°	3436.1	74.7
0°-90°	4601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1471	1462	1469	1469	1469	140
15°	1401	1404	1428	1439	1443	395
25°	1275	1291	1329	1352	1364	587
35°	1104	1136	1194	1234	1252	691
45°	908	957	1033	1091	1117	702
55°	699	760	852	927	959	625
65°	476	545	650	731	763	470
75°	245	322	422	494	514	259
85°	53	99	108	106	108	64
90°	0	0	0	0	0	



TEST NUMBER: P732307

CATALOG NUMBER: 24CZ2-50-SQR-B2750-W2D-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1470.6	1470.6	1470.6	1470.6	1470.6
2.5°	1476.7	1466.1	1470.6	1470.6	1464.7
5°	1470.6	1461.5	1469.2	1469.2	1469.2
7.5°	1460.2	1452.5	1464.7	1467.7	1467.7
10°	1443.4	1440.4	1455.6	1460.2	1461.5
12.5°	1425.2	1423.6	1445.0	1450.9	1455.6
15°	1400.7	1403.9	1428.2	1438.8	1443.4
17.5°	1375.1	1381.0	1408.4	1423.6	1428.2
20°	1344.6	1353.7	1385.7	1400.7	1410.0
22.5°	1311.3	1324.9	1358.3	1376.4	1387.1
25°	1274.8	1291.3	1329.4	1352.2	1364.4
27.5°	1235.3	1256.6	1300.6	1326.3	1338.5
30°	1192.6	1216.9	1265.7	1296.1	1311.3
32.5°	1148.6	1177.4	1230.7	1264.1	1282.3
35°	1104.5	1136.5	1194.2	1233.7	1251.8
37.5°	1060.5	1092.3	1156.3	1198.7	1221.6
40°	1010.4	1048.3	1116.8	1163.8	1186.7
42.5°	961.8	1002.7	1075.7	1127.3	1151.7
45°	908.5	957.2	1033.1	1090.9	1116.8
47.5°	859.9	908.5	990.6	1051.4	1080.3
50°	806.8	858.3	945.0	1011.9	1042.3
52.5°	755.1	808.4	899.4	970.9	1001.3
55°	699.0	759.6	852.4	926.8	958.6
57.5°	642.7	708.1	803.6	881.2	913.2
60°	588.0	654.8	755.1	832.7	866.0
62.5°	533.3	600.1	704.9	783.9	815.9
65°	475.5	545.4	650.2	730.8	762.8
67.5°	417.8	490.7	595.5	676.1	706.5
70°	357.0	434.6	539.4	618.4	648.8
72.5°	300.9	378.3	481.6	559.2	588.0
75°	244.6	322.0	422.3	493.8	513.6
77.5°	189.9	267.4	357.0	404.2	408.7
80°	138.2	211.3	284.1	297.8	296.2
82.5°	92.6	158.0	196.1	197.5	202.0
85°	53.1	98.7	107.8	106.4	107.8
87.5°	21.3	34.9	30.4	22.7	22.7
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)