

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: P881297

Luminaire Tested: **24CZ2-75VHE-SQR-UNV-B40**

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: P881297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474669)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-75VHE-SQR-UNV-B40
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

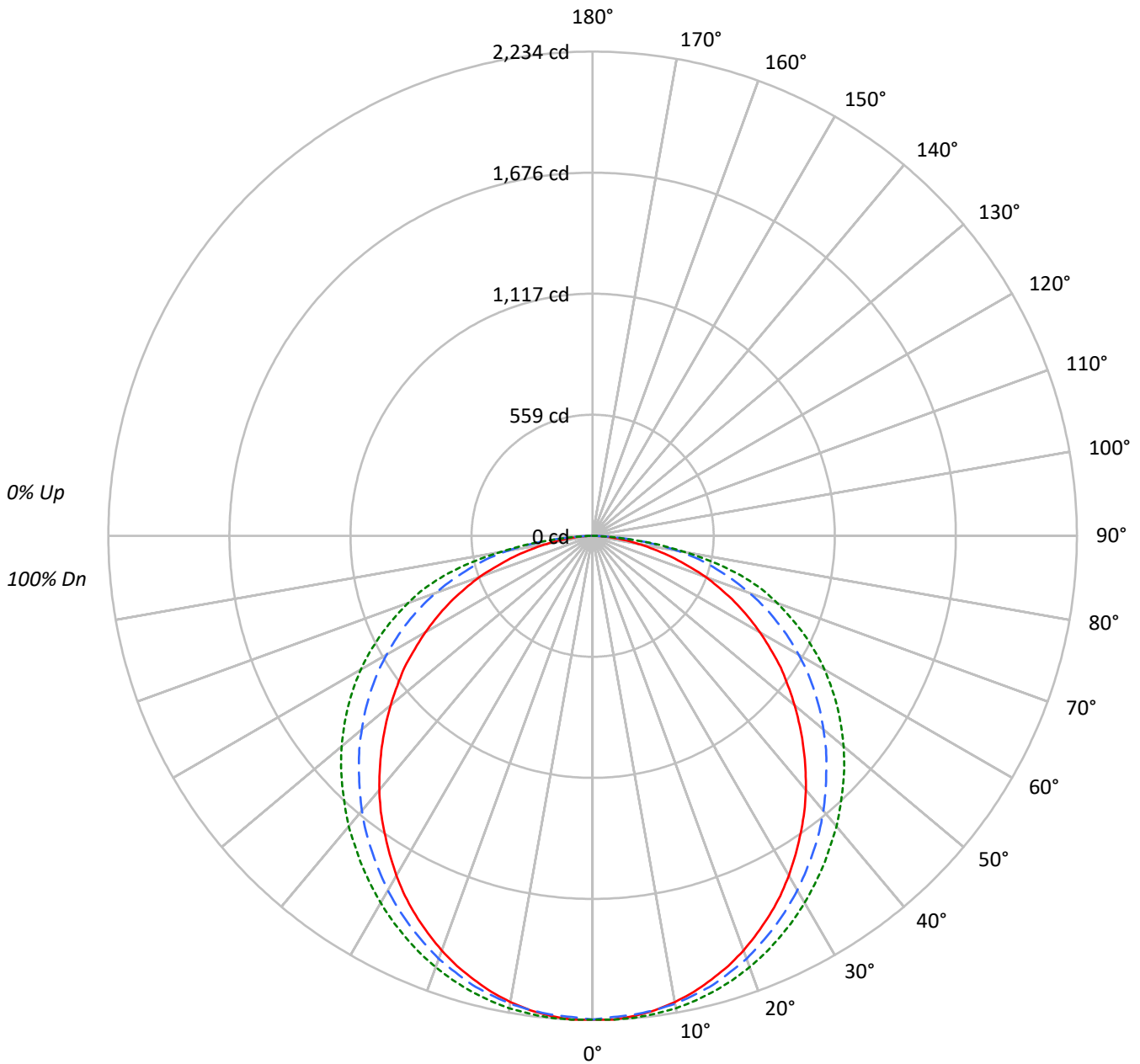
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6796.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 60
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: P881297
CATALOG NUMBER: 24CZ2-75VHE-SQR-UNV-B40

Luminous Intensity Polar Plot





TEST NUMBER: P881297

CATALOG NUMBER: 24CZ2-75VHE-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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3151	3151	3151
5°	3150	3141	3163
10°	3131	3141	3173
15°	3097	3135	3178
20°	3058	3119	3181
25°	3008	3098	3182
30°	2950	3079	3187
35°	2883	3060	3199
40°	2820	3051	3225
45°	2743	3043	3259
50°	2670	3051	3318
55°	2608	3072	3393
60°	2519	3096	3487
65°	2418	3133	3593
70°	2294	3176	3737
75°	2055	3221	3860
80°	1730	3230	3502
85°	1284	2442	2303



TEST NUMBER: P881297

CATALOG NUMBER: 24CZ2-75VHE-SQR-UNV-B40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.5	3.1
10°-20°	606.3	8.9
20°-30°	917.8	13.5
30°-40°	1110.2	16.3
40°-50°	1171.9	17.2
50°-60°	1105.1	16.3
60°-70°	911.1	13.4
70°-80°	597.7	8.8
80°-90°	164.3	2.4
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°	1735.6	25.5
0°-40°	2845.8	41.9
0°-60°	5122.9	75.4
0°-90°	6796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2232	2232	2232	2232	2232	
5°	2224	2224	2217	2232	2232	211
15°	2119	2131	2145	2170	2175	598
25°	1932	1955	1989	2030	2043	890
35°	1673	1716	1776	1837	1857	1047
45°	1374	1436	1524	1606	1633	1061
55°	1060	1134	1249	1342	1379	944
65°	724	811	938	1038	1076	715
75°	377	473	591	684	708	398
85°	79	137	151	146	142	98
90°	0	0	0	0	0	



TEST NUMBER: P881297

CATALOG NUMBER: 24CZ2-75VHE-SQR-UNV-B40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2232.3	2232.3	2232.3	2232.3	2232.3
2.5°	2234.4	2232.3	2222.6	2235.5	2234.4
5°	2223.5	2223.5	2217.2	2232.3	2232.3
7.5°	2208.3	2209.5	2207.2	2224.6	2224.6
10°	2184.5	2188.8	2192.0	2211.7	2213.8
12.5°	2156.2	2163.9	2170.3	2194.3	2196.5
15°	2119.3	2131.3	2145.4	2170.3	2174.8
17.5°	2081.3	2095.5	2110.7	2143.3	2148.8
20°	2035.8	2052.1	2077.0	2109.6	2118.2
22.5°	1984.8	2007.5	2033.5	2072.7	2083.5
25°	1931.6	1955.4	1989.1	2030.3	2043.2
27.5°	1874.1	1902.2	1940.2	1988.0	2002.0
30°	1810.0	1842.4	1889.3	1940.2	1955.4
32.5°	1742.5	1780.6	1832.6	1889.3	1906.5
35°	1673.2	1716.5	1776.3	1837.2	1856.6
37.5°	1604.6	1648.1	1718.7	1782.8	1801.2
40°	1530.8	1578.6	1655.8	1724.2	1750.2
42.5°	1452.7	1509.3	1590.6	1666.7	1691.6
45°	1374.5	1436.4	1524.4	1605.7	1632.9
47.5°	1295.3	1363.7	1460.4	1542.8	1574.3
50°	1216.0	1288.7	1389.7	1478.7	1511.3
52.5°	1135.6	1211.7	1321.3	1415.8	1445.2
55°	1059.8	1134.5	1248.6	1341.9	1378.8
57.5°	971.7	1056.4	1176.9	1271.5	1307.3
60°	892.4	975.1	1096.7	1196.6	1235.5
62.5°	806.6	891.3	1019.5	1119.3	1157.4
65°	724.2	811.1	938.2	1038.0	1075.9
67.5°	635.2	726.4	856.7	953.3	990.3
70°	555.9	641.8	769.7	868.7	905.6
72.5°	459.2	557.1	679.6	777.4	817.5
75°	376.8	473.3	590.6	684.1	707.9
77.5°	289.9	386.5	502.7	563.4	579.7
80°	212.9	303.9	397.4	430.0	430.9
82.5°	143.3	223.7	276.9	293.3	291.0
85°	79.3	136.8	150.8	146.5	142.2
87.5°	32.6	45.5	36.9	26.0	20.6
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)