

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: P881018

Luminaire Tested: **24CZ2-70VHE-SQR-B2750-W2D-3000K**

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: P881018
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: 24CZ2-70VHE-SQR-B2750-W2D-3000K
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

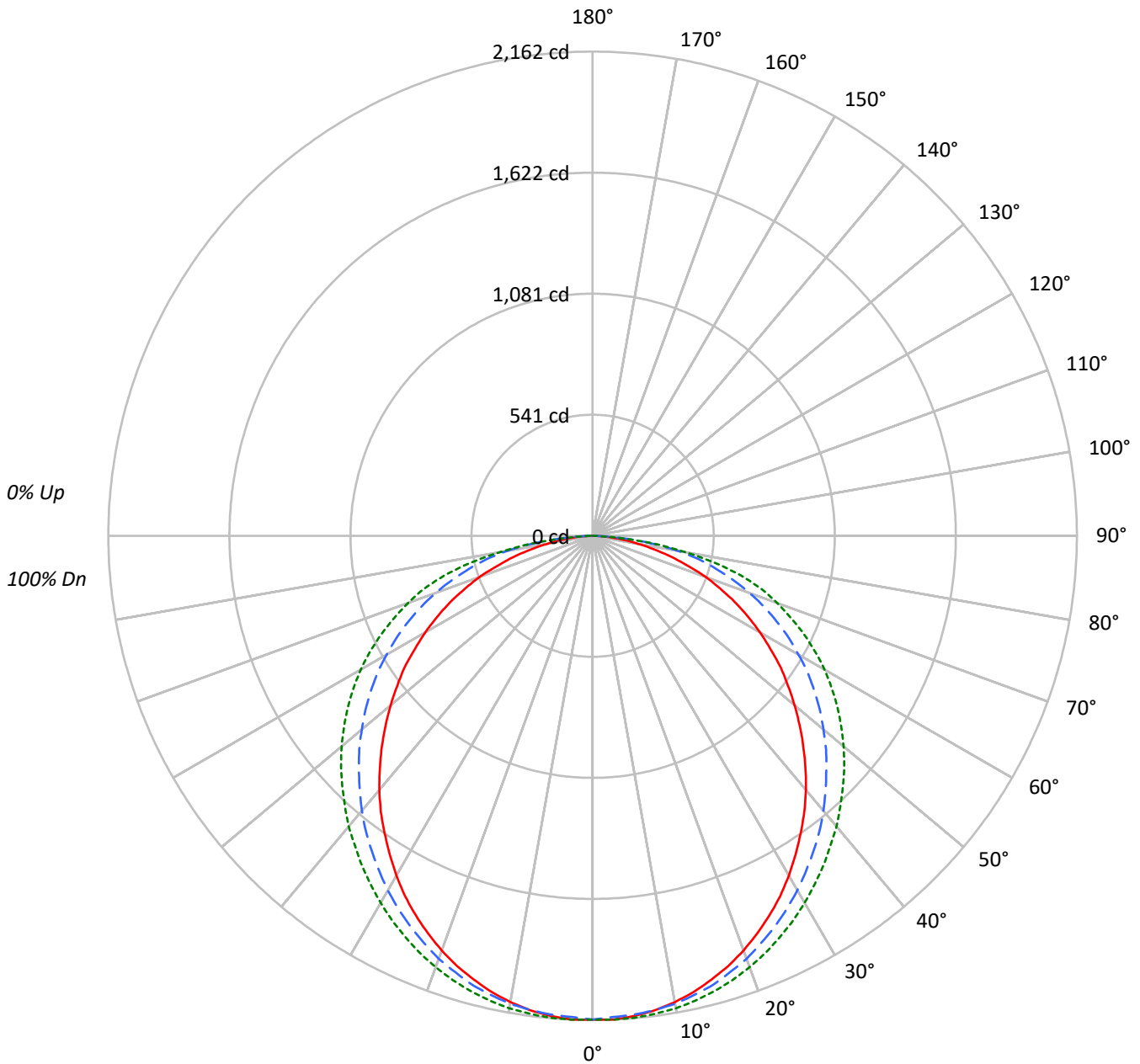
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6577.0 lumens
Efficiency: N/A
Efficacy: 117.4 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): 56
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: P881018
CATALOG NUMBER: 24CZ2-70VHE-SQR-B2750-W2D-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P881018

CATALOG NUMBER: 24CZ2-70VHE-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	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°	3049	3049	3049
5°	3049	3040	3061
10°	3030	3040	3070
15°	2997	3034	3075
20°	2959	3019	3079
25°	2911	2998	3079
30°	2855	2980	3084
35°	2790	2962	3096
40°	2729	2952	3121
45°	2655	2945	3154
50°	2584	2953	3211
55°	2524	2973	3283
60°	2438	2996	3375
65°	2340	3032	3477
70°	2220	3074	3616
75°	1989	3116	3736
80°	1674	3126	3389
85°	1242	2364	2228



TEST NUMBER: P881018

CATALOG NUMBER: 24CZ2-70VHE-SQR-B2750-W2D-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	3.1
10°-20°	586.7	8.9
20°-30°	888.2	13.5
30°-40°	1074.4	16.3
40°-50°	1134.1	17.2
50°-60°	1069.5	16.3
60°-70°	881.8	13.4
70°-80°	578.4	8.8
80°-90°	159.0	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°	1679.6	25.5
0°-40°	2754.1	41.9
0°-60°	4957.7	75.4
0°-90°	6577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2160	2160	2160	2160	2160	
5°	2152	2152	2146	2160	2160	204
15°	2051	2063	2076	2100	2105	579
25°	1869	1892	1925	1965	1977	861
35°	1619	1661	1719	1778	1797	1014
45°	1330	1390	1475	1554	1580	1027
55°	1026	1098	1208	1299	1334	914
65°	701	785	908	1005	1041	692
75°	365	458	572	662	685	385
85°	77	132	146	142	138	95
90°	0	0	0	0	0	



TEST NUMBER: P881018

CATALOG NUMBER: 24CZ2-70VHE-SQR-B2750-W2D-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2160.4	2160.4	2160.4	2160.4	2160.4
2.5°	2162.4	2160.4	2151.0	2163.5	2162.4
5°	2151.8	2151.8	2145.7	2160.4	2160.4
7.5°	2137.2	2138.3	2136.1	2152.9	2152.9
10°	2114.1	2118.3	2121.4	2140.4	2142.4
12.5°	2086.8	2094.2	2100.3	2123.6	2125.8
15°	2051.0	2062.6	2076.2	2100.3	2104.7
17.5°	2014.2	2028.0	2042.7	2074.3	2079.5
20°	1970.2	1985.9	2010.1	2041.6	2049.9
22.5°	1920.9	1942.8	1968.0	2005.9	2016.4
25°	1869.4	1892.4	1925.0	1964.9	1977.4
27.5°	1813.7	1840.9	1877.7	1923.9	1937.5
30°	1751.7	1783.0	1828.4	1877.7	1892.4
32.5°	1686.4	1723.2	1773.6	1828.4	1845.0
35°	1619.3	1661.2	1719.0	1778.0	1796.8
37.5°	1552.9	1595.0	1663.4	1725.4	1743.1
40°	1481.5	1527.7	1602.4	1668.6	1693.8
42.5°	1405.9	1460.6	1539.3	1612.9	1637.1
45°	1330.2	1390.1	1475.3	1554.0	1580.3
47.5°	1253.5	1319.7	1413.3	1493.1	1523.5
50°	1176.8	1247.2	1344.9	1431.1	1462.6
52.5°	1099.0	1172.7	1278.7	1370.1	1398.6
55°	1025.6	1097.9	1208.4	1298.7	1334.4
57.5°	940.4	1022.3	1138.9	1230.5	1265.2
60°	863.7	943.7	1061.3	1158.0	1195.7
62.5°	780.6	862.6	986.6	1083.3	1120.1
65°	700.8	785.0	907.9	1004.6	1041.2
67.5°	614.7	703.0	829.0	922.6	958.3
70°	538.0	621.1	744.9	840.7	876.4
72.5°	444.4	539.1	657.7	752.3	791.1
75°	364.7	458.0	571.5	662.1	685.1
77.5°	280.5	374.1	486.5	545.2	561.0
80°	206.0	294.1	384.6	416.2	417.0
82.5°	138.7	216.5	268.0	283.8	281.6
85°	76.7	132.4	146.0	141.8	137.6
87.5°	31.6	44.0	35.7	25.2	19.9
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)