

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: P881011

Luminaire Tested: **24CZ2-70VHE-RDP-B2750-W2D-5000K**

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: P881011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-70VHE-RDP-B2750-W2D-5000K  
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

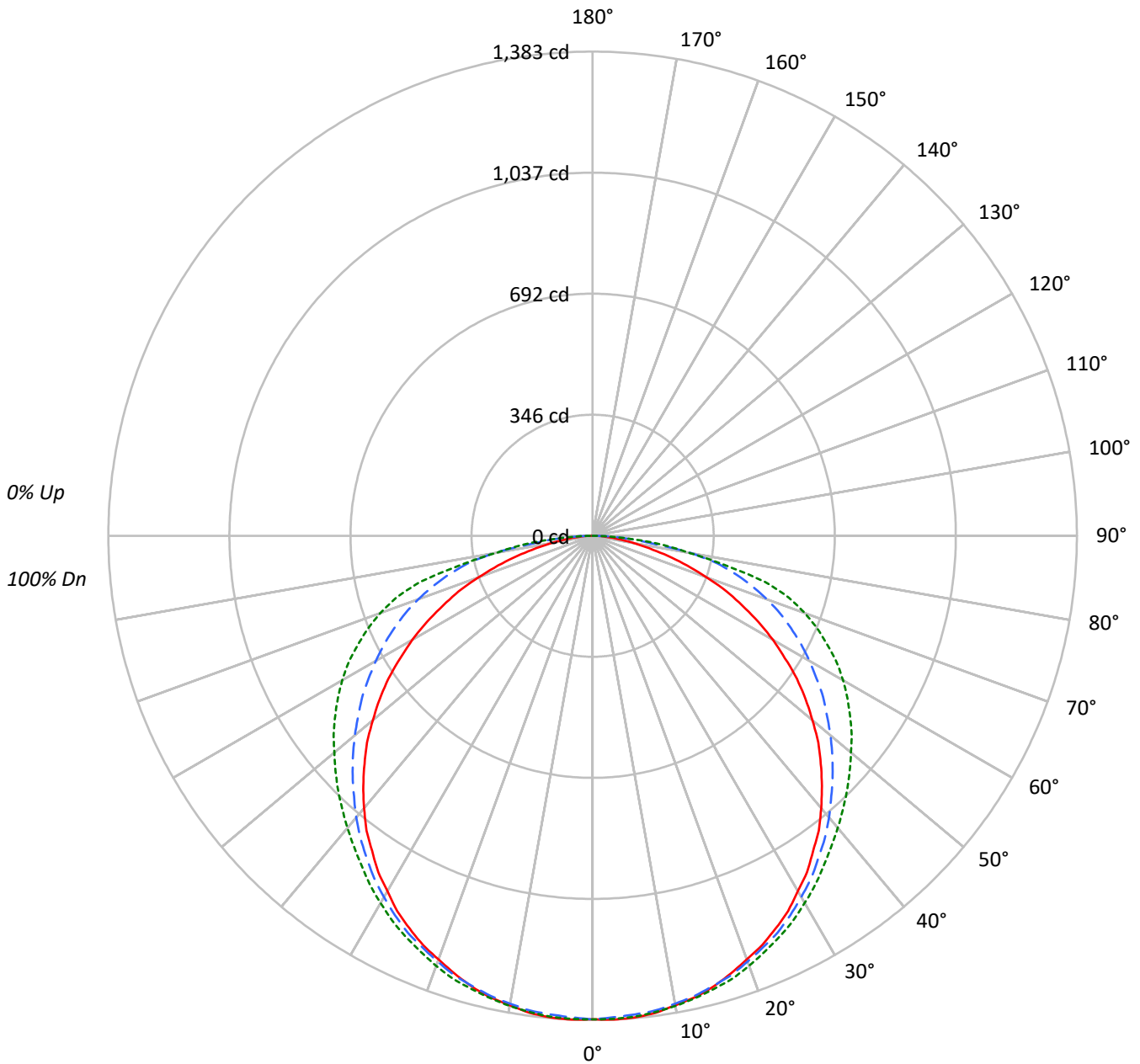
Lumens per Lamp: N/A  
Luminaire Lumens: 4392.0 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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: P881011

CATALOG NUMBER: 24CZ2-70VHE-RDP-B2750-W2D-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P881011

CATALOG NUMBER: 24CZ2-70VHE-RDP-B2750-W2D-5000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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				100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82				82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67				67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56				56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47				47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40				40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35				35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27				27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24				24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22				22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1949	1949	1949
5°	1957	1944	1954
10°	1951	1945	1954
15°	1948	1945	1958
20°	1934	1943	1963
25°	1927	1947	1968
30°	1910	1942	1974
35°	1892	1937	1982
40°	1871	1934	2007
45°	1839	1935	2052
50°	1798	1947	2114
55°	1752	1978	2208
60°	1679	2017	2330
65°	1572	2088	2474
70°	1429	2185	2661
75°	1211	2305	2780
80°	956	2319	2247
85°	706	1763	1977



TEST NUMBER: P881011

CATALOG NUMBER: 24CZ2-70VHE-RDP-B2750-W2D-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.0	3.0
10°-20°	377.1	8.6
20°-30°	576.6	13.1
30°-40°	704.9	16.0
40°-50°	751.3	17.1
50°-60°	718.3	16.4
60°-70°	608.5	13.9
70°-80°	409.0	9.3
80°-90°	115.4	2.6
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°	1084.7	24.7
0°-40°	1789.6	40.7
0°-60°	3259.2	74.2
0°-90°	4392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4392.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1381	1381	1381	1381	1381	
5°	1381	1379	1372	1379	1379	131
15°	1333	1333	1331	1342	1340	376
25°	1237	1242	1250	1261	1264	570
35°	1098	1107	1124	1146	1150	688
45°	922	937	969	1011	1028	711
55°	712	738	804	867	898	634
65°	471	519	625	708	741	467
75°	222	303	423	495	510	238
85°	44	89	109	118	122	54
90°	0	0	0	0	0	



TEST NUMBER: P881011

CATALOG NUMBER: 24CZ2-70VHE-RDP-B2750-W2D-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1381.2	1381.2	1381.2	1381.2	1381.2
2.5°	1383.4	1383.4	1376.8	1381.2	1381.2
5°	1381.2	1379.1	1372.5	1379.1	1379.1
7.5°	1374.6	1372.5	1368.0	1374.6	1372.5
10°	1361.7	1361.7	1357.2	1363.8	1363.8
12.5°	1350.6	1348.5	1346.4	1355.1	1352.9
15°	1333.2	1333.2	1331.0	1341.9	1339.8
17.5°	1311.5	1313.6	1315.9	1324.7	1326.8
20°	1287.4	1291.9	1294.0	1307.2	1307.2
22.5°	1265.7	1267.9	1272.3	1285.3	1285.3
25°	1237.4	1241.7	1250.4	1261.3	1263.6
27.5°	1208.9	1211.3	1222.1	1237.4	1239.6
30°	1171.9	1178.5	1191.7	1208.9	1211.3
32.5°	1139.4	1145.7	1161.1	1178.5	1183.0
35°	1097.9	1106.6	1124.1	1145.7	1150.2
37.5°	1060.9	1067.3	1089.2	1113.2	1119.6
40°	1015.3	1028.1	1050.0	1078.3	1089.2
42.5°	969.4	982.6	1008.8	1045.6	1058.5
45°	921.5	936.9	969.4	1010.9	1028.1
47.5°	873.7	891.1	928.1	976.0	995.6
50°	819.0	840.9	886.6	941.1	963.0
52.5°	766.9	793.0	843.0	904.1	932.4
55°	712.2	738.4	803.9	867.1	897.5
57.5°	651.4	686.0	758.2	830.1	862.6
60°	594.8	627.3	714.6	793.0	825.6
62.5°	533.7	577.3	670.9	753.7	786.5
65°	470.6	518.6	625.2	708.0	740.7
67.5°	414.0	466.3	579.5	662.2	694.8
70°	346.3	411.6	529.5	612.0	644.8
72.5°	283.1	355.0	477.1	557.8	588.2
75°	222.1	302.7	422.7	494.6	509.9
77.5°	165.7	250.4	365.9	396.5	385.7
80°	117.6	200.6	285.3	270.0	276.5
82.5°	76.4	152.5	176.6	200.6	206.8
85°	43.6	89.3	108.9	117.6	122.1
87.5°	19.6	32.8	43.6	43.6	41.5
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)