

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: P881009

Luminaire Tested: **24CZ2-70VHE-RDP-B2750-W2D-3500K**

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: P881009  
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-3500K  
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

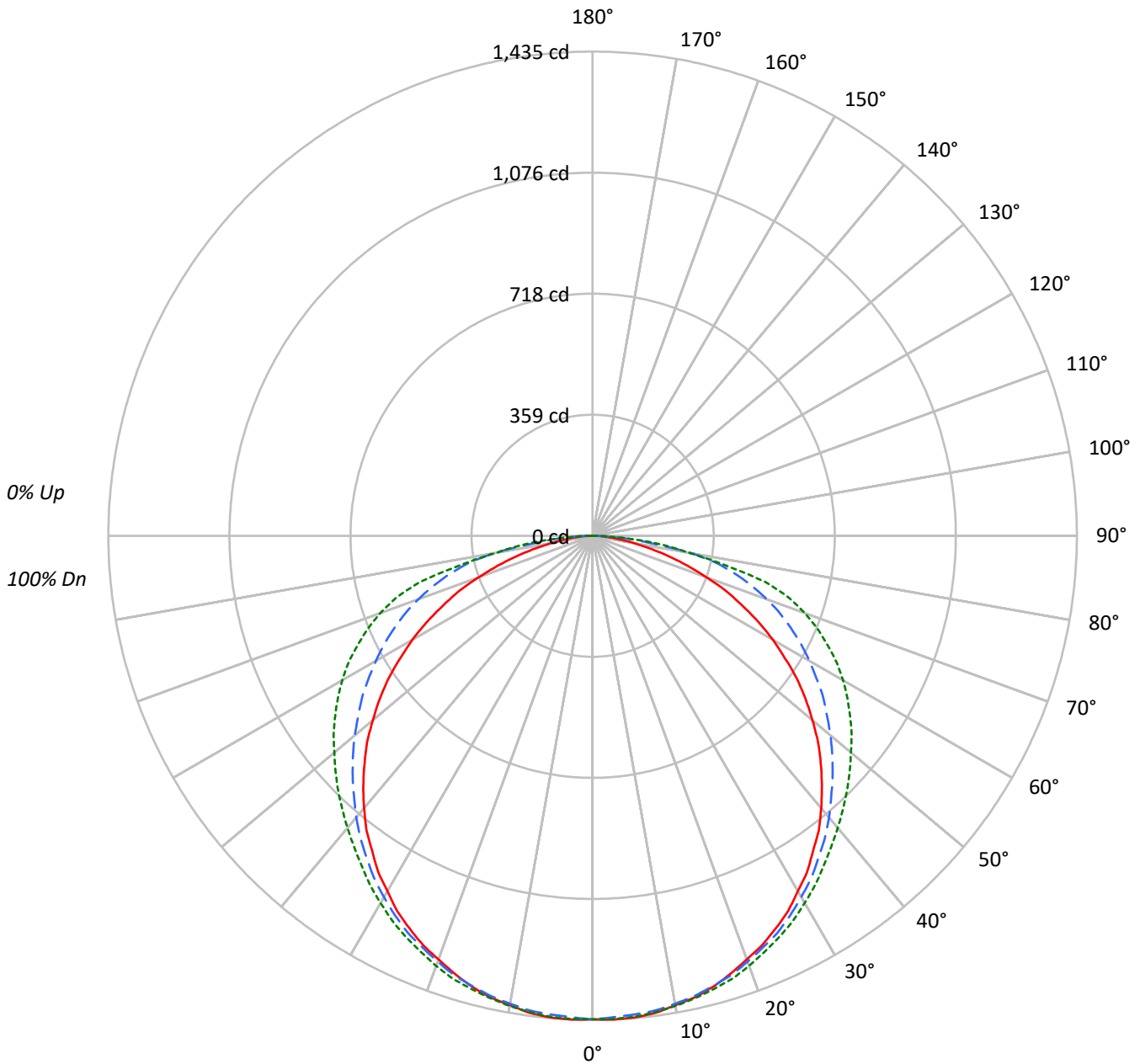
Lumens per Lamp: N/A  
Luminaire Lumens: 4557.0 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot





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**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°	2023	2023	2023
5°	2030	2018	2027
10°	2025	2018	2028
15°	2021	2018	2031
20°	2006	2016	2037
25°	1999	2020	2042
30°	1982	2015	2048
35°	1963	2009	2056
40°	1941	2007	2082
45°	1909	2008	2129
50°	1866	2020	2194
55°	1818	2052	2291
60°	1742	2093	2418
65°	1630	2166	2566
70°	1483	2267	2761
75°	1256	2392	2885
80°	992	2406	2332
85°	732	1830	2052



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.9	3.0
10°-20°	391.2	8.6
20°-30°	598.3	13.1
30°-40°	731.3	16.0
40°-50°	779.5	17.1
50°-60°	745.3	16.4
60°-70°	631.4	13.9
70°-80°	424.3	9.3
80°-90°	119.7	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°	1125.4	24.7
0°-40°	1856.8	40.7
0°-60°	3381.6	74.2
0°-90°	4557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4557.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1433	1431	1424	1431	1431	136
15°	1383	1383	1381	1392	1390	390
25°	1284	1288	1297	1309	1311	592
35°	1139	1148	1166	1189	1193	714
45°	956	972	1006	1049	1067	737
55°	739	766	834	900	931	658
65°	488	538	649	735	768	485
75°	230	314	439	513	529	247
85°	45	93	113	122	127	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1433.1	1433.1	1433.1	1433.1	1433.1
2.5°	1435.3	1435.3	1428.5	1433.1	1433.1
5°	1433.1	1430.9	1424.1	1430.9	1430.9
7.5°	1426.3	1424.1	1419.4	1426.3	1424.1
10°	1412.8	1412.8	1408.2	1415.0	1415.0
12.5°	1401.3	1399.1	1396.9	1406.0	1403.8
15°	1383.2	1383.2	1381.0	1392.3	1390.1
17.5°	1360.7	1362.9	1365.4	1374.4	1376.6
20°	1335.8	1340.4	1342.6	1356.3	1356.3
22.5°	1313.3	1315.5	1320.1	1333.6	1333.6
25°	1283.9	1288.3	1297.4	1308.6	1311.1
27.5°	1254.3	1256.8	1268.0	1283.9	1286.1
30°	1215.9	1222.8	1236.5	1254.3	1256.8
32.5°	1182.2	1188.8	1204.7	1222.8	1227.4
35°	1139.1	1148.2	1166.3	1188.8	1193.4
37.5°	1100.7	1107.3	1130.1	1155.0	1161.6
40°	1053.5	1066.7	1089.5	1118.8	1130.1
42.5°	1005.8	1019.5	1046.6	1084.8	1098.3
45°	956.2	972.0	1005.8	1048.9	1066.7
47.5°	906.5	924.6	963.0	1012.7	1033.0
50°	849.8	872.5	920.0	976.5	999.2
52.5°	795.7	822.8	874.7	938.1	967.4
55°	739.0	766.1	834.1	899.7	931.2
57.5°	675.8	711.8	786.6	861.2	895.0
60°	617.1	650.9	741.4	822.8	856.6
62.5°	553.8	599.0	696.1	782.0	816.0
65°	488.2	538.1	648.7	734.6	768.5
67.5°	429.5	483.8	601.2	687.1	720.9
70°	359.3	427.1	549.4	635.0	669.0
72.5°	293.8	368.4	495.1	578.7	610.3
75°	230.4	314.1	438.6	513.2	529.1
77.5°	171.9	259.8	379.6	411.4	400.2
80°	122.1	208.1	296.0	280.1	286.9
82.5°	79.2	158.3	183.2	208.1	214.5
85°	45.2	92.7	113.0	122.1	126.7
87.5°	20.3	34.0	45.2	45.2	43.0
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)