

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: P881031

Luminaire Tested: **24CZ2-75VHE-HRP-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: P881031  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474369)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-75VHE-HRP-B2750-W2D-5000K  
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

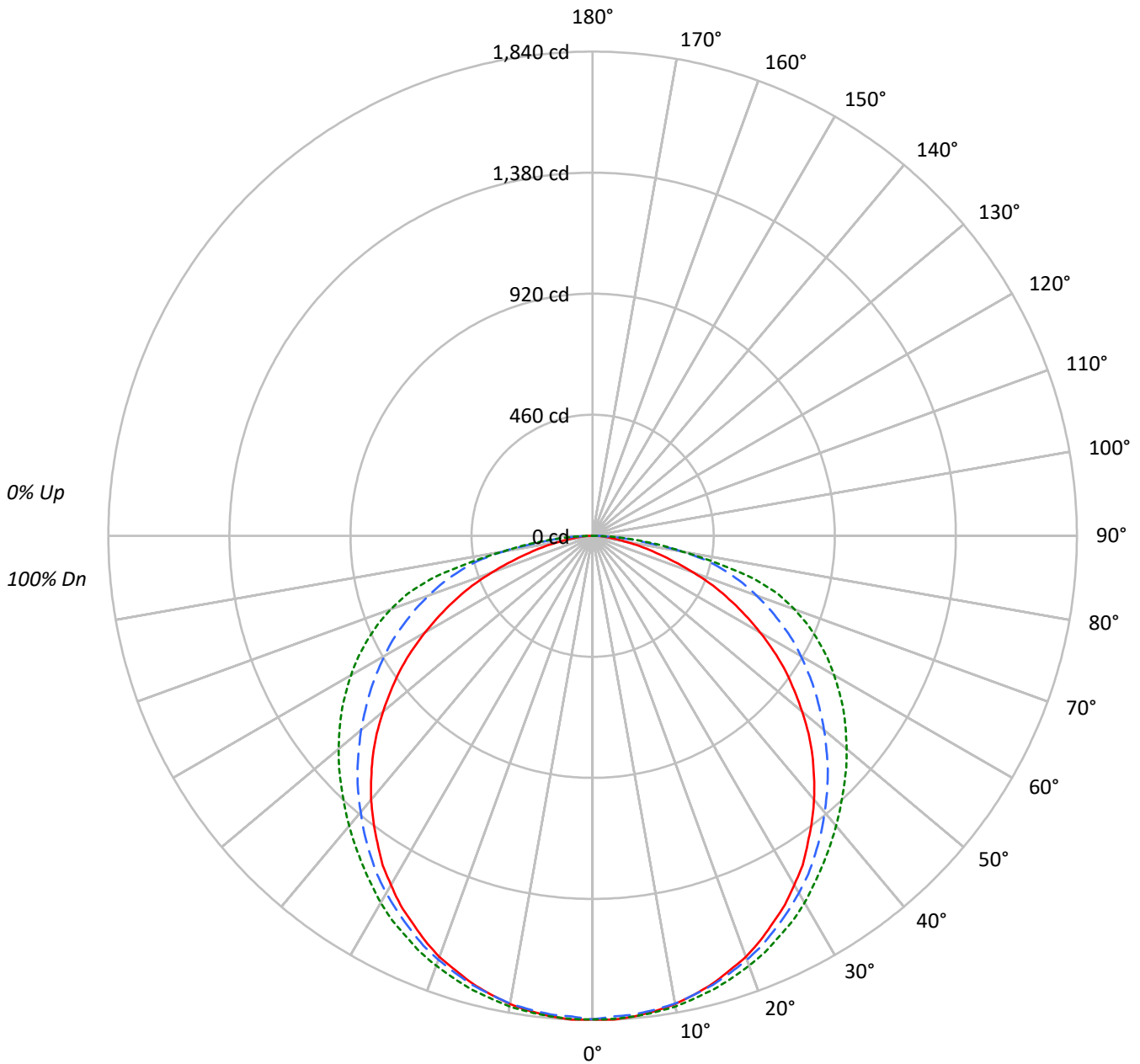
Lumens per Lamp: N/A  
Luminaire Lumens: 5665.0 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot





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**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	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	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	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	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	24	35	29	24	23																			

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

	0°	45°	90°
0°	2594	2594	2594
5°	2597	2587	2597
10°	2590	2586	2603
15°	2575	2582	2606
20°	2558	2575	2611
25°	2526	2563	2615
30°	2497	2555	2624
35°	2456	2541	2627
40°	2412	2526	2652
45°	2357	2523	2694
50°	2281	2521	2765
55°	2200	2538	2866
60°	2075	2577	2992
65°	1917	2638	3161
70°	1674	2730	3366
75°	1357	2870	3478
80°	1003	2815	2815
85°	769	2074	2343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.1	3.1
10°-20°	500.0	8.8
20°-30°	761.2	13.4
30°-40°	924.2	16.3
40°-50°	976.5	17.2
50°-60°	921.4	16.3
60°-70°	766.1	13.5
70°-80°	504.0	8.9
80°-90°	137.4	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°	1435.3	25.3
0°-40°	2359.5	41.7
0°-60°	4257.5	75.2
0°-90°	5665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5665.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1833	1833	1826	1833	1833	174
15°	1762	1764	1767	1784	1784	497
25°	1622	1632	1646	1674	1679	748
35°	1425	1442	1475	1513	1525	892
45°	1181	1205	1264	1326	1350	910
55°	894	932	1032	1129	1165	796
65°	574	640	790	906	946	567
75°	249	363	526	624	638	268
85°	48	104	128	142	145	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1838.0	1838.0	1838.0	1838.0	1838.0
2.5°	1840.3	1838.0	1828.4	1838.0	1838.0
5°	1833.3	1833.3	1826.1	1833.3	1833.3
7.5°	1821.4	1821.4	1816.5	1826.1	1826.1
10°	1807.2	1807.2	1804.8	1816.5	1816.5
12.5°	1785.9	1788.0	1785.9	1799.9	1799.9
15°	1762.0	1764.4	1766.9	1783.5	1783.5
17.5°	1731.4	1736.1	1740.8	1759.7	1762.0
20°	1702.9	1705.0	1714.6	1736.1	1738.4
22.5°	1665.0	1672.0	1684.0	1705.0	1712.5
25°	1622.0	1631.6	1645.9	1674.4	1679.1
27.5°	1581.8	1589.1	1608.0	1638.8	1648.4
30°	1532.0	1543.9	1567.6	1598.4	1610.3
32.5°	1484.6	1496.5	1525.0	1558.0	1567.6
35°	1425.4	1442.0	1475.0	1513.1	1525.0
37.5°	1368.4	1385.0	1425.4	1468.0	1482.5
40°	1309.0	1328.0	1371.0	1420.5	1439.5
42.5°	1245.0	1271.2	1318.6	1373.1	1394.6
45°	1180.9	1204.8	1263.9	1325.6	1349.5
47.5°	1112.4	1141.0	1204.8	1278.4	1306.9
50°	1038.8	1074.3	1148.0	1228.4	1259.5
52.5°	965.4	1005.6	1088.6	1178.6	1212.0
55°	894.1	932.0	1031.6	1129.0	1164.6
57.5°	815.8	863.5	972.4	1076.7	1112.4
60°	735.2	787.5	913.0	1022.0	1060.1
62.5°	654.5	713.9	856.0	965.4	1005.6
65°	573.9	640.5	789.9	906.0	946.5
67.5°	495.6	569.2	728.1	844.3	884.5
70°	405.6	498.1	661.5	775.6	815.8
72.5°	322.6	429.4	597.5	704.5	740.1
75°	248.9	363.0	526.4	623.7	637.9
77.5°	182.6	296.4	453.0	486.0	488.5
80°	123.4	237.0	346.4	341.5	346.4
82.5°	80.6	177.9	218.1	244.3	246.6
85°	47.5	104.5	128.1	142.4	144.7
87.5°	23.6	35.5	45.1	47.5	52.1
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)