

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: P881027

Luminaire Tested: **24CZ2-75VHE-HRP-B2750-W2D-2700K**

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: P881027  
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-2700K  
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

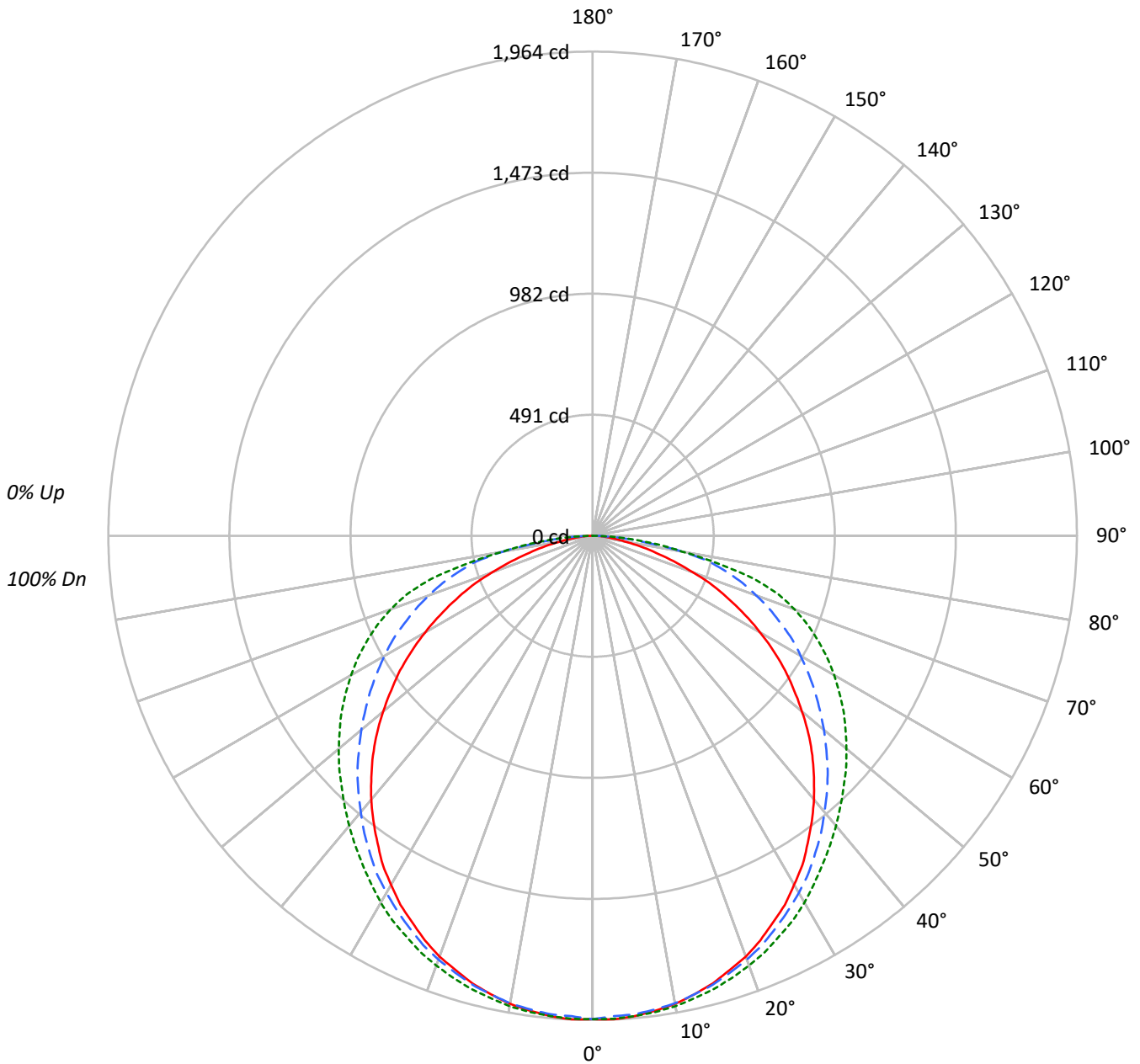
Lumens per Lamp: N/A  
Luminaire Lumens: 6044.0 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	2768	2768	2768
5°	2771	2760	2771
10°	2763	2760	2777
15°	2747	2755	2780
20°	2729	2747	2786
25°	2695	2735	2790
30°	2664	2725	2800
35°	2620	2711	2803
40°	2573	2695	2830
45°	2515	2692	2874
50°	2433	2689	2950
55°	2347	2708	3057
60°	2214	2750	3192
65°	2045	2814	3372
70°	1786	2912	3592
75°	1448	3062	3711
80°	1070	3004	3004
85°	819	2214	2500



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.8	3.1
10°-20°	533.4	8.8
20°-30°	812.1	13.4
30°-40°	986.1	16.3
40°-50°	1041.8	17.2
50°-60°	983.1	16.3
60°-70°	817.4	13.5
70°-80°	537.7	8.9
80°-90°	146.6	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°	1531.3	25.3
0°-40°	2517.4	41.7
0°-60°	4542.3	75.2
0°-90°	6044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6044.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1961	1961	1961	1961	1961	
5°	1956	1956	1948	1956	1956	186
15°	1880	1882	1885	1903	1903	530
25°	1730	1741	1756	1786	1791	798
35°	1521	1538	1574	1614	1627	952
45°	1260	1285	1348	1414	1440	970
55°	954	994	1101	1205	1242	850
65°	612	683	843	967	1010	605
75°	266	387	562	665	681	286
85°	51	112	137	152	154	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1961.0	1961.0	1961.0	1961.0	1961.0
2.5°	1963.5	1961.0	1950.7	1961.0	1961.0
5°	1956.0	1956.0	1948.3	1956.0	1956.0
7.5°	1943.3	1943.3	1938.0	1948.3	1948.3
10°	1928.1	1928.1	1925.6	1938.0	1938.0
12.5°	1905.4	1907.6	1905.4	1920.3	1920.3
15°	1879.9	1882.4	1885.2	1902.9	1902.9
17.5°	1847.3	1852.2	1857.2	1877.4	1879.9
20°	1816.8	1819.1	1829.3	1852.2	1854.7
22.5°	1776.4	1783.9	1796.6	1819.1	1827.1
25°	1730.5	1740.8	1756.0	1786.4	1791.4
27.5°	1687.6	1695.4	1715.6	1748.5	1758.7
30°	1634.5	1647.2	1672.4	1705.3	1718.1
32.5°	1583.9	1596.6	1627.0	1662.2	1672.4
35°	1520.8	1538.5	1573.7	1614.3	1627.0
37.5°	1459.9	1477.7	1520.8	1566.2	1581.6
40°	1396.6	1416.8	1462.7	1515.6	1535.8
42.5°	1328.3	1356.2	1406.8	1464.9	1487.9
45°	1259.9	1285.4	1348.5	1414.3	1439.7
47.5°	1186.9	1217.3	1285.4	1363.9	1394.4
50°	1108.3	1146.2	1224.8	1310.6	1343.7
52.5°	1030.0	1072.9	1161.4	1257.4	1293.1
55°	953.9	994.3	1100.6	1204.6	1242.5
57.5°	870.4	921.3	1037.5	1148.7	1186.9
60°	784.3	840.2	974.1	1090.3	1131.0
62.5°	698.3	761.6	913.3	1030.0	1072.9
65°	612.3	683.3	842.7	966.6	1009.8
67.5°	528.7	607.3	776.9	900.8	943.7
70°	432.7	531.5	705.8	827.5	870.4
72.5°	344.2	458.1	637.4	751.7	789.6
75°	265.6	387.3	561.6	665.4	680.6
77.5°	194.8	316.2	483.3	518.5	521.2
80°	131.7	252.9	369.6	364.4	369.6
82.5°	86.0	189.8	232.7	260.6	263.1
85°	50.6	111.5	136.7	151.9	154.4
87.5°	25.2	37.9	48.1	50.6	55.6
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)