

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: P880652

Luminaire Tested: **22CZ2-24VHE-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: P880652  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475114)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-24VHE-HRP-B2750-W2D-2700K  
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

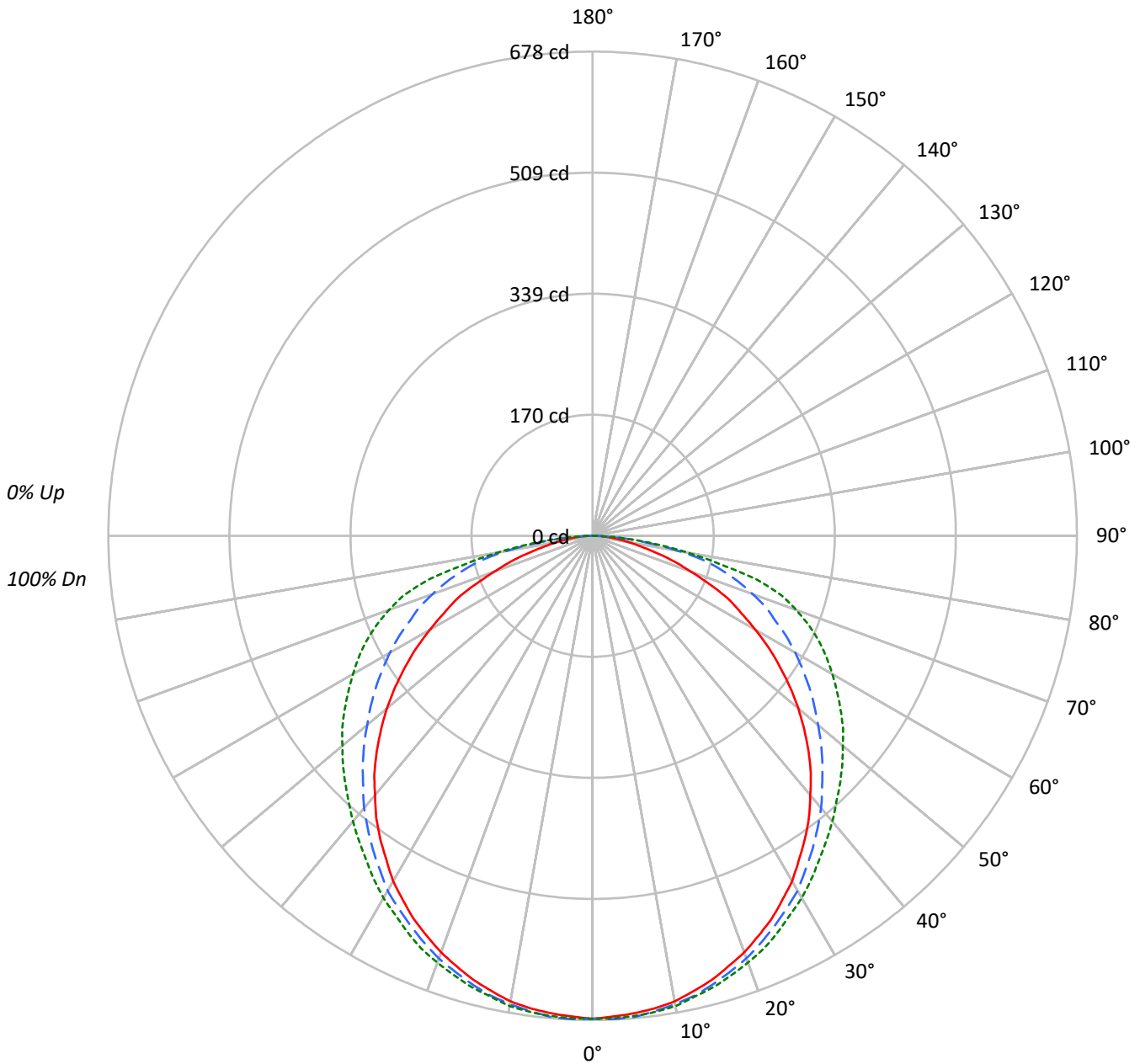
Lumens per Lamp: N/A  
Luminaire Lumens: 2054.0 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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: P880652

CATALOG NUMBER: 22CZ2-24VHE-HRP-B2750-W2D-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P880652

CATALOG NUMBER: 22CZ2-24VHE-HRP-B2750-W2D-2700K

**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	87	84	82																			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	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	52	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°	1919	1919	1919
5°	1912	1926	1923
10°	1908	1919	1927
15°	1892	1911	1922
20°	1874	1901	1921
25°	1854	1887	1919
30°	1830	1881	1919
35°	1795	1858	1916
40°	1756	1843	1934
45°	1716	1825	1966
50°	1659	1819	2019
55°	1583	1833	2096
60°	1493	1860	2199
65°	1410	1896	2349
70°	1204	1978	2515
75°	1009	2061	2614
80°	827	1990	2181
85°	716	1475	1602



TEST NUMBER: P880652

CATALOG NUMBER: 22CZ2-24VHE-HRP-B2750-W2D-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	3.1
10°-20°	183.4	8.9
20°-30°	277.9	13.5
30°-40°	335.6	16.3
40°-50°	352.6	17.2
50°-60°	331.8	16.2
60°-70°	276.6	13.5
70°-80°	183.3	8.9
80°-90°	48.8	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°	525.4	25.6
0°-40°	860.9	41.9
0°-60°	1545.3	75.2
0°-90°	2054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2054.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	671	672	676	676	675	64
15°	644	647	650	653	654	182
25°	592	596	603	610	613	273
35°	518	524	536	548	553	324
45°	428	434	455	478	490	329
55°	320	334	371	408	424	286
65°	210	228	282	329	350	204
75°	92	128	188	227	238	100
85°	22	34	45	49	49	26
90°	0	0	0	0	0	



TEST NUMBER: P880652

CATALOG NUMBER: 22CZ2-24VHE-HRP-B2750-W2D-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	676.3	676.3	676.3	676.3	676.3
2.5°	673.8	675.0	677.6	677.6	676.3
5°	671.2	672.5	676.3	676.3	675.0
7.5°	667.3	668.7	671.2	673.8	672.5
10°	662.1	663.4	666.0	668.7	668.7
12.5°	653.0	654.3	659.5	660.9	660.9
15°	644.0	646.6	650.5	653.0	654.3
17.5°	632.3	634.9	640.1	645.3	645.3
20°	620.7	623.3	629.7	634.9	636.1
22.5°	606.4	610.3	616.8	623.3	625.9
25°	592.2	596.1	602.6	610.3	612.9
27.5°	575.2	579.1	588.3	597.4	598.5
30°	558.4	562.3	574.0	581.7	585.7
32.5°	537.7	542.9	554.5	566.2	570.1
35°	518.3	523.5	536.4	548.2	553.2
37.5°	497.6	502.6	517.0	531.4	537.7
40°	474.1	480.8	497.6	513.1	522.2
42.5°	452.3	458.7	475.6	496.3	505.3
45°	427.6	434.0	454.9	478.0	489.8
47.5°	401.7	409.4	434.0	462.6	474.1
50°	375.8	384.8	412.0	444.4	457.3
52.5°	348.5	360.2	391.3	426.4	441.8
55°	320.0	334.4	370.6	408.1	423.7
57.5°	292.8	305.9	348.5	388.7	405.5
60°	263.0	279.9	327.7	369.2	387.4
62.5°	234.6	252.7	305.9	349.9	369.2
65°	210.0	227.9	282.4	329.0	349.9
67.5°	177.5	202.2	263.0	307.0	327.7
70°	145.1	178.8	238.4	283.7	303.2
72.5°	120.5	152.9	213.8	259.1	277.3
75°	92.0	128.3	188.0	226.8	238.4
77.5°	68.7	106.3	160.6	180.2	181.3
80°	50.6	81.5	121.8	128.3	133.5
82.5°	35.1	57.0	79.1	86.7	89.4
85°	22.0	33.7	45.3	49.2	49.2
87.5°	11.6	12.9	15.5	15.5	15.5
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)