

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: P881002

Luminaire Tested: **24CZ2-70VHE-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: P881002
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: 24CZ2-70VHE-HRP-B2750-W2D-2700K
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

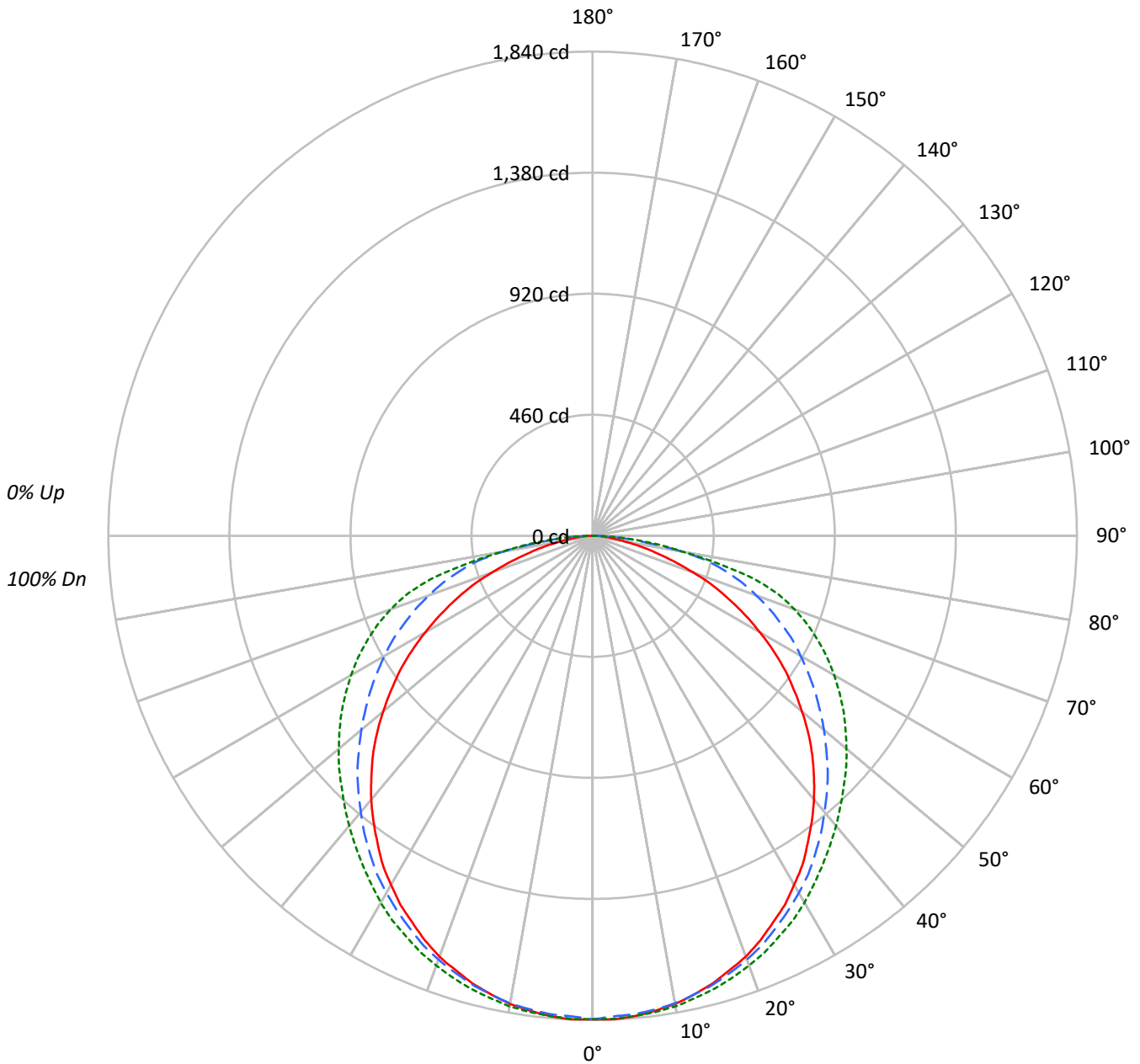
Lumens per Lamp: N/A
Luminaire Lumens: 5663.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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°	2593	2593	2593
5°	2596	2586	2596
10°	2589	2586	2602
15°	2574	2581	2605
20°	2557	2574	2610
25°	2525	2562	2614
30°	2496	2554	2623
35°	2455	2540	2627
40°	2411	2525	2651
45°	2356	2522	2693
50°	2280	2520	2764
55°	2199	2537	2865
60°	2074	2576	2991
65°	1916	2637	3160
70°	1673	2729	3365
75°	1357	2869	3477
80°	1003	2815	2815
85°	768	2074	2342



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	3.1
10°-20°	499.8	8.8
20°-30°	760.9	13.4
30°-40°	923.9	16.3
40°-50°	976.1	17.2
50°-60°	921.1	16.3
60°-70°	765.9	13.5
70°-80°	503.9	8.9
80°-90°	137.3	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°	1434.8	25.3
0°-40°	2358.7	41.7
0°-60°	4255.9	75.2
0°-90°	5663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5663.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1837	1837	1837	1837	1837	
5°	1833	1833	1825	1833	1833	174
15°	1761	1764	1766	1783	1783	497
25°	1621	1631	1645	1674	1678	748
35°	1425	1442	1474	1513	1524	892
45°	1180	1204	1264	1325	1349	909
55°	894	932	1031	1129	1164	796
65°	574	640	790	906	946	567
75°	249	363	526	623	638	268
85°	47	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°	1837.4	1837.4	1837.4	1837.4	1837.4
2.5°	1839.7	1837.4	1827.8	1837.4	1837.4
5°	1832.7	1832.7	1825.4	1832.7	1832.7
7.5°	1820.8	1820.8	1815.9	1825.4	1825.4
10°	1806.5	1806.5	1804.2	1815.9	1815.9
12.5°	1785.3	1787.4	1785.3	1799.3	1799.3
15°	1761.4	1763.8	1766.3	1782.9	1782.9
17.5°	1730.8	1735.5	1740.2	1759.1	1761.4
20°	1702.3	1704.4	1714.0	1735.5	1737.8
22.5°	1664.4	1671.5	1683.4	1704.4	1711.9
25°	1621.4	1631.0	1645.3	1673.8	1678.5
27.5°	1581.3	1588.5	1607.4	1638.3	1647.9
30°	1531.5	1543.4	1567.0	1597.8	1609.8
32.5°	1484.0	1496.0	1524.5	1557.4	1567.0
35°	1424.9	1441.5	1474.5	1512.6	1524.5
37.5°	1367.9	1384.5	1424.9	1467.5	1481.9
40°	1308.6	1327.5	1370.5	1420.0	1438.9
42.5°	1244.5	1270.7	1318.1	1372.6	1394.1
45°	1180.5	1204.3	1263.5	1325.2	1349.0
47.5°	1112.0	1140.6	1204.3	1277.9	1306.5
50°	1038.4	1074.0	1147.6	1227.9	1259.0
52.5°	965.1	1005.3	1088.2	1178.2	1211.6
55°	893.8	931.6	1031.2	1128.6	1164.2
57.5°	815.5	863.2	972.1	1076.3	1112.0
60°	734.9	787.2	912.7	1021.6	1059.7
62.5°	654.3	713.6	855.7	965.1	1005.3
65°	573.7	640.3	789.6	905.7	946.1
67.5°	495.4	569.0	727.9	844.0	884.2
70°	405.4	498.0	661.3	775.3	815.5
72.5°	322.5	429.3	597.3	704.3	739.8
75°	248.9	362.9	526.2	623.4	637.7
77.5°	182.5	296.3	452.9	485.8	488.4
80°	123.4	236.9	346.3	341.4	346.3
82.5°	80.6	177.8	218.0	244.2	246.5
85°	47.4	104.5	128.1	142.3	144.6
87.5°	23.6	35.5	45.1	47.4	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)