

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: P880977

Luminaire Tested: **24CZ2-65VHE-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: P880977
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: 24CZ2-65VHE-HRP-B2750-W2D-2700K
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

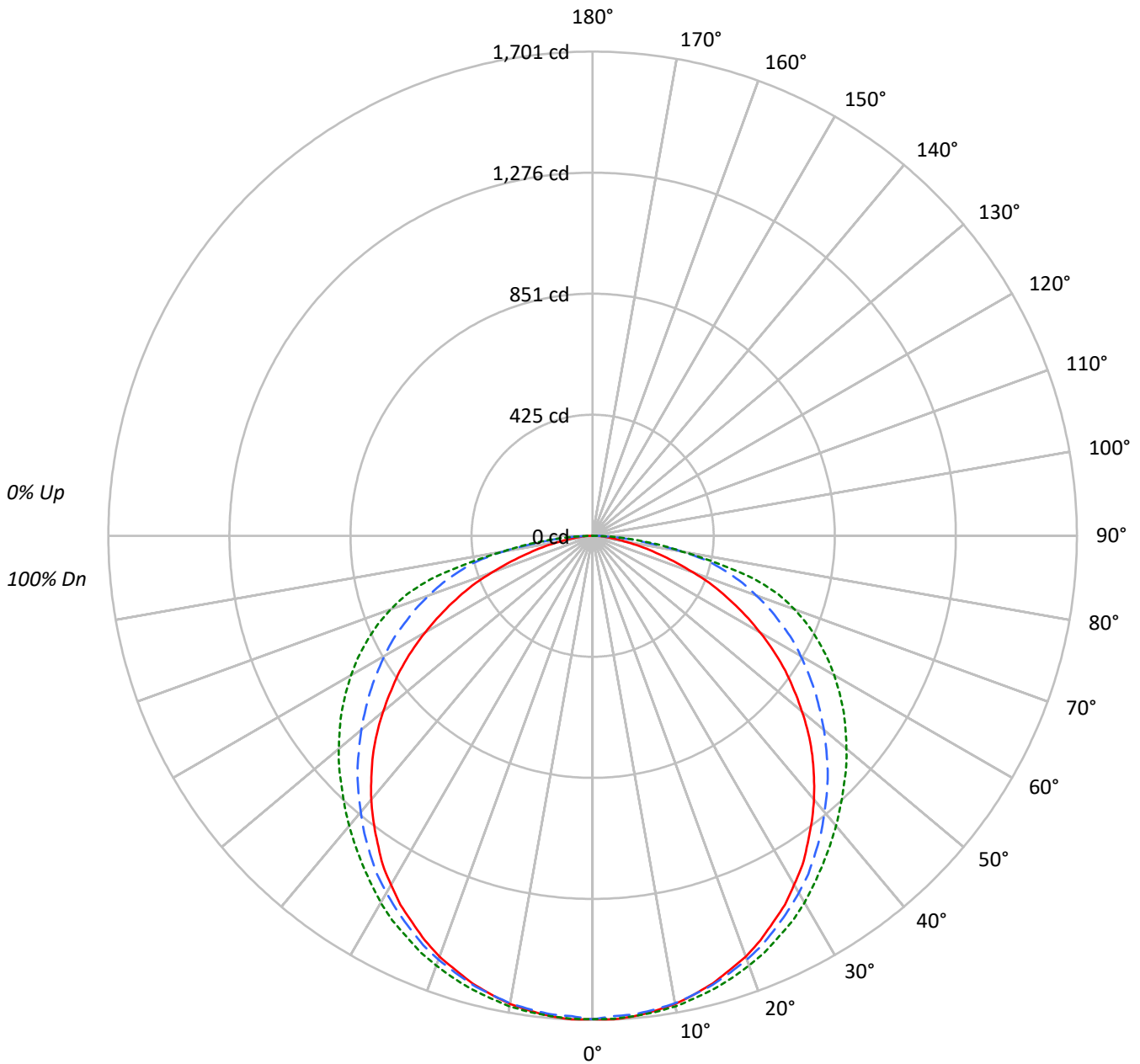
Lumens per Lamp: N/A
Luminaire Lumens: 5235.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 51
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°	2397	2397	2397
5°	2400	2391	2400
10°	2393	2390	2406
15°	2379	2386	2408
20°	2363	2380	2413
25°	2334	2368	2416
30°	2307	2361	2425
35°	2269	2348	2428
40°	2229	2334	2451
45°	2178	2331	2489
50°	2108	2329	2556
55°	2033	2346	2648
60°	1918	2381	2765
65°	1771	2438	2921
70°	1547	2523	3111
75°	1255	2653	3215
80°	927	2602	2602
85°	711	1917	2165



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	3.1
10°-20°	462.0	8.8
20°-30°	703.4	13.4
30°-40°	854.1	16.3
40°-50°	902.3	17.2
50°-60°	851.5	16.3
60°-70°	708.0	13.5
70°-80°	465.8	8.9
80°-90°	127.0	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°	1326.3	25.3
0°-40°	2180.4	41.7
0°-60°	3934.3	75.2
0°-90°	5235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1698	1698	1698	1698	1698	
5°	1694	1694	1688	1694	1694	161
15°	1628	1630	1633	1648	1648	459
25°	1499	1508	1521	1547	1552	691
35°	1317	1333	1363	1398	1409	825
45°	1091	1113	1168	1225	1247	840
55°	826	861	953	1043	1076	736
65°	530	592	730	837	875	524
75°	230	336	486	576	590	248
85°	44	97	118	132	134	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1698.5	1698.5	1698.5	1698.5	1698.5
2.5°	1700.7	1698.5	1689.6	1698.5	1698.5
5°	1694.2	1694.2	1687.5	1694.2	1694.2
7.5°	1683.2	1683.2	1678.6	1687.5	1687.5
10°	1670.0	1670.0	1667.8	1678.6	1678.6
12.5°	1650.3	1652.3	1650.3	1663.3	1663.3
15°	1628.3	1630.5	1632.8	1648.2	1648.2
17.5°	1600.0	1604.3	1608.6	1626.1	1628.3
20°	1573.6	1575.6	1584.4	1604.3	1606.5
22.5°	1538.6	1545.1	1556.1	1575.6	1582.5
25°	1498.9	1507.8	1520.9	1547.3	1551.6
27.5°	1461.7	1468.4	1485.9	1514.5	1523.3
30°	1415.7	1426.8	1448.6	1477.1	1488.1
32.5°	1371.9	1382.9	1409.3	1439.7	1448.6
35°	1317.2	1332.6	1363.0	1398.2	1409.3
37.5°	1264.5	1279.9	1317.2	1356.5	1369.9
40°	1209.7	1227.2	1266.9	1312.7	1330.2
42.5°	1150.5	1174.7	1218.5	1268.8	1288.7
45°	1091.3	1113.3	1168.0	1225.0	1247.0
47.5°	1028.0	1054.3	1113.3	1181.4	1207.7
50°	960.0	992.8	1060.8	1135.1	1163.9
52.5°	892.1	929.3	1006.0	1089.1	1120.0
55°	826.2	861.2	953.3	1043.3	1076.2
57.5°	753.9	797.9	898.6	994.9	1028.0
60°	679.4	727.7	843.7	944.4	979.6
62.5°	604.8	659.7	791.0	892.1	929.3
65°	530.3	591.9	729.9	837.3	874.6
67.5°	457.9	526.0	672.9	780.2	817.4
70°	374.8	460.3	611.3	716.7	753.9
72.5°	298.1	396.8	552.1	651.1	683.9
75°	230.1	335.5	486.5	576.3	589.5
77.5°	168.7	273.9	418.6	449.1	451.5
80°	114.1	219.0	320.1	315.6	320.1
82.5°	74.5	164.4	201.5	225.7	227.9
85°	43.9	96.6	118.4	131.6	133.7
87.5°	21.8	32.8	41.7	43.9	48.2
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)