

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: P880978

Luminaire Tested: **24CZ2-65VHE-HRP-B2750-W2D-3000K**

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: P880978
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-3000K
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

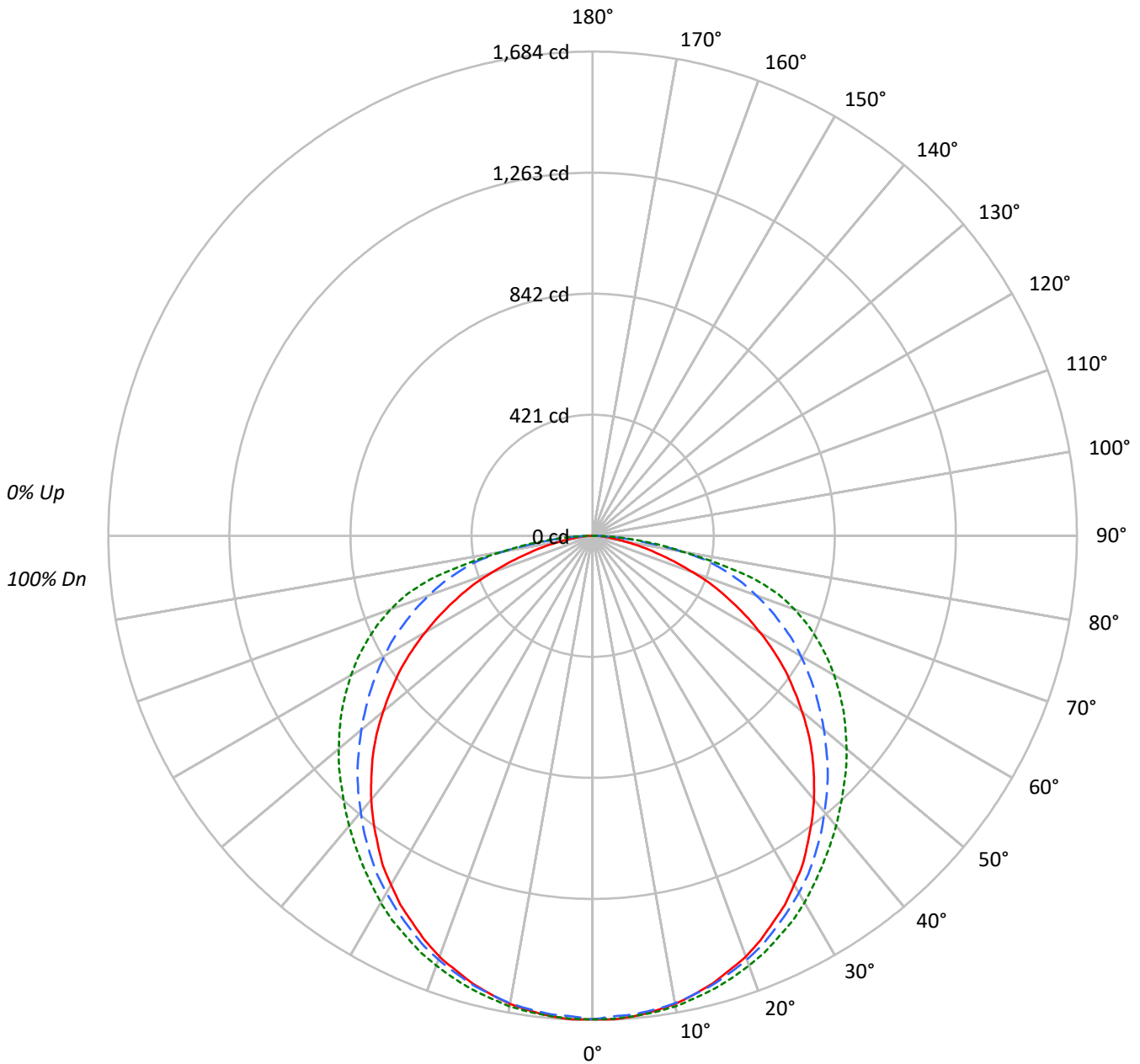
Lumens per Lamp: N/A
Luminaire Lumens: 5183.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2373	2373	2373
5°	2376	2367	2376
10°	2370	2366	2382
15°	2355	2362	2384
20°	2340	2356	2389
25°	2311	2345	2392
30°	2284	2337	2401
35°	2247	2325	2404
40°	2206	2311	2426
45°	2156	2308	2464
50°	2087	2306	2530
55°	2013	2322	2622
60°	1899	2358	2738
65°	1753	2413	2892
70°	1531	2497	3080
75°	1242	2626	3182
80°	918	2576	2576
85°	703	1898	2144



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	3.1
10°-20°	457.5	8.8
20°-30°	696.4	13.4
30°-40°	845.6	16.3
40°-50°	893.4	17.2
50°-60°	843.0	16.3
60°-70°	701.0	13.5
70°-80°	461.1	8.9
80°-90°	125.7	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°	1313.2	25.3
0°-40°	2158.8	41.7
0°-60°	3895.2	75.2
0°-90°	5183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1677	1677	1671	1677	1677	159
15°	1612	1614	1617	1632	1632	455
25°	1484	1493	1506	1532	1536	685
35°	1304	1319	1350	1384	1395	816
45°	1080	1102	1156	1213	1235	832
55°	818	853	944	1033	1066	729
65°	525	586	723	829	866	519
75°	228	332	482	571	584	245
85°	43	96	117	130	132	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1681.6	1681.6	1681.6	1681.6	1681.6
2.5°	1683.8	1681.6	1672.9	1681.6	1681.6
5°	1677.3	1677.3	1670.7	1677.3	1677.3
7.5°	1666.4	1666.4	1661.9	1670.7	1670.7
10°	1653.4	1653.4	1651.3	1661.9	1661.9
12.5°	1633.9	1635.9	1633.9	1646.8	1646.8
15°	1612.1	1614.3	1616.6	1631.8	1631.8
17.5°	1584.1	1588.4	1592.7	1610.0	1612.1
20°	1558.0	1559.9	1568.7	1588.4	1590.5
22.5°	1523.4	1529.8	1540.7	1559.9	1566.8
25°	1484.0	1492.8	1505.8	1531.9	1536.2
27.5°	1447.2	1453.9	1471.2	1499.4	1508.2
30°	1401.7	1412.6	1434.2	1462.4	1473.3
32.5°	1358.3	1369.2	1395.3	1425.4	1434.2
35°	1304.2	1319.3	1349.5	1384.4	1395.3
37.5°	1252.0	1267.2	1304.2	1343.1	1356.3
40°	1197.6	1215.0	1254.3	1299.7	1317.0
42.5°	1139.0	1163.0	1206.4	1256.2	1275.9
45°	1080.4	1102.3	1156.4	1212.8	1234.6
47.5°	1017.8	1043.9	1102.3	1169.6	1195.7
50°	950.4	982.9	1050.3	1123.9	1152.3
52.5°	883.3	920.0	996.0	1078.3	1108.9
55°	818.0	852.7	943.8	1033.0	1065.5
57.5°	746.4	790.0	889.7	985.1	1017.8
60°	672.6	720.5	835.4	935.0	969.9
62.5°	598.8	653.1	783.2	883.3	920.0
65°	525.0	586.0	722.7	828.9	865.9
67.5°	453.4	520.8	666.2	772.5	809.3
70°	371.1	455.7	605.2	709.6	746.4
72.5°	295.1	392.9	546.6	644.6	677.1
75°	227.8	332.1	481.6	570.6	583.6
77.5°	167.0	271.2	414.5	444.6	447.0
80°	112.9	216.9	316.9	312.5	316.9
82.5°	73.8	162.8	199.5	223.5	225.6
85°	43.4	95.6	117.2	130.2	132.4
87.5°	21.6	32.5	41.3	43.4	47.7
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)