

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: P732392

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732392  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-65HE-HRP-B2750-W2D-3000K  
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

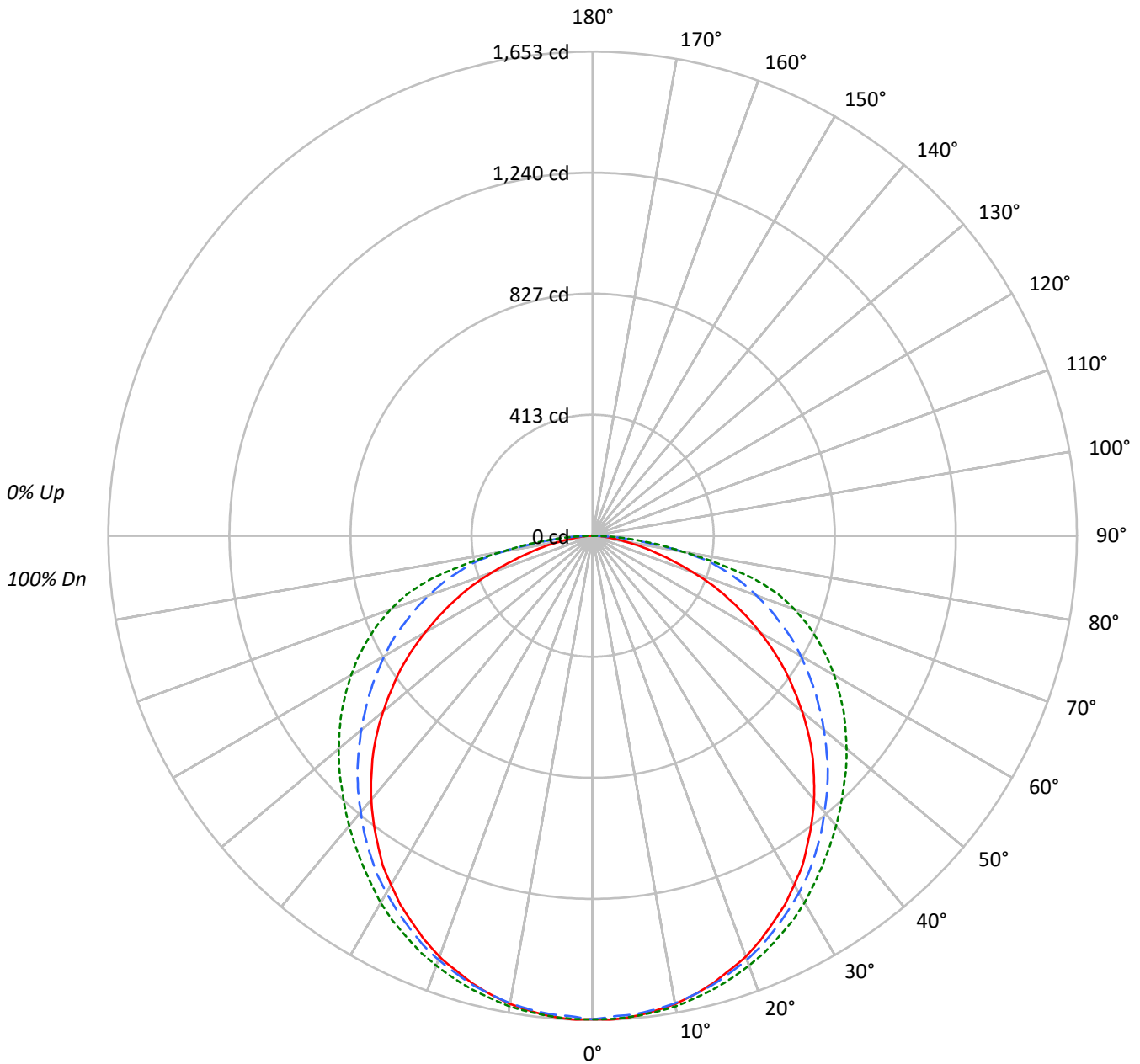
Lumens per Lamp: N/A  
Luminaire Lumens: 5088.0 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2330	2330	2330
5°	2333	2324	2333
10°	2326	2323	2338
15°	2312	2319	2341
20°	2297	2313	2345
25°	2269	2302	2348
30°	2243	2295	2357
35°	2206	2283	2360
40°	2166	2268	2382
45°	2117	2266	2419
50°	2049	2264	2484
55°	1976	2280	2573
60°	1864	2315	2687
65°	1722	2369	2838
70°	1503	2452	3024
75°	1219	2578	3124
80°	899	2528	2528
85°	691	1864	2104



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.4	3.1
10°-20°	449.1	8.8
20°-30°	683.6	13.4
30°-40°	830.1	16.3
40°-50°	877.0	17.2
50°-60°	827.5	16.3
60°-70°	688.1	13.5
70°-80°	452.7	8.9
80°-90°	123.4	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°	1289.1	25.3
0°-40°	2119.2	41.7
0°-60°	3823.8	75.2
0°-90°	5088.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5088.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1651	1651	1651	1651	1651	
5°	1647	1647	1640	1647	1647	156
15°	1583	1585	1587	1602	1602	446
25°	1457	1465	1478	1504	1508	672
35°	1280	1295	1325	1359	1370	801
45°	1061	1082	1135	1191	1212	817
55°	803	837	926	1014	1046	715
65°	516	575	709	814	850	510
75°	224	326	473	560	573	241
85°	43	94	115	128	130	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1650.9	1650.9	1650.9	1650.9	1650.9
2.5°	1653.0	1650.9	1642.2	1650.9	1650.9
5°	1646.7	1646.7	1640.1	1646.7	1646.7
7.5°	1635.9	1635.9	1631.6	1640.1	1640.1
10°	1623.2	1623.2	1620.8	1631.6	1631.6
12.5°	1604.0	1606.1	1604.0	1616.6	1616.6
15°	1582.6	1584.8	1586.9	1601.9	1601.9
17.5°	1555.0	1559.2	1563.4	1580.5	1582.6
20°	1529.4	1531.5	1540.0	1559.2	1561.3
22.5°	1495.2	1501.8	1512.3	1531.5	1537.9
25°	1457.0	1465.4	1478.3	1503.9	1508.1
27.5°	1420.6	1427.2	1444.1	1471.7	1480.4
30°	1376.1	1386.7	1408.0	1435.7	1446.2
32.5°	1333.4	1344.0	1369.5	1399.6	1408.0
35°	1280.2	1295.0	1325.0	1359.0	1369.5
37.5°	1229.1	1243.9	1280.2	1318.4	1331.3
40°	1175.7	1192.8	1231.2	1276.0	1292.9
42.5°	1118.2	1141.7	1184.3	1233.3	1252.6
45°	1060.8	1082.1	1135.4	1190.7	1212.0
47.5°	998.9	1024.5	1082.1	1148.0	1173.5
50°	933.0	964.9	1031.0	1103.5	1131.1
52.5°	866.9	903.0	977.6	1058.7	1088.5
55°	802.9	837.2	926.5	1013.9	1045.8
57.5°	732.8	775.3	873.2	967.0	998.9
60°	660.4	707.3	820.0	918.0	952.0
62.5°	588.0	641.2	768.9	866.9	903.0
65°	515.5	575.1	709.4	813.7	849.8
67.5°	445.2	511.3	653.8	758.4	794.5
70°	364.3	447.3	594.3	696.5	732.8
72.5°	289.8	385.7	536.9	632.7	664.6
75°	223.6	325.9	472.8	560.3	572.9
77.5°	164.1	266.3	406.7	436.8	438.9
80°	110.6	213.1	311.1	306.6	311.1
82.5°	72.4	159.6	196.0	219.4	221.5
85°	42.7	93.8	115.1	127.8	129.9
87.5°	21.3	31.9	40.6	42.7	46.9
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)