

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: P732391

Luminaire Tested: **24CZ2-65HE-HRP-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732391  
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-2700K  
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

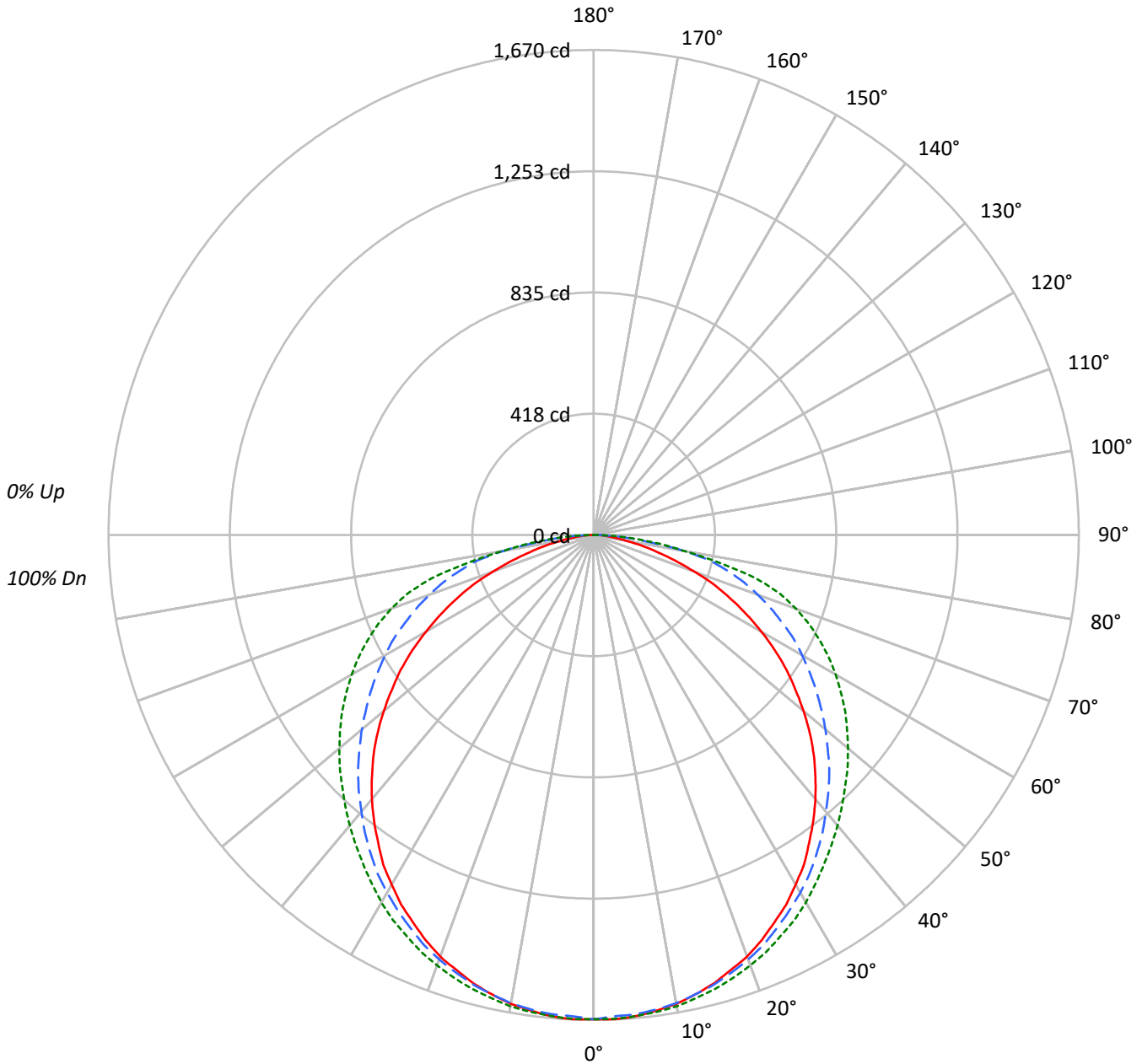
Lumens per Lamp: N/A  
Luminaire Lumens: 5140.0 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	2354	2354	2354
5°	2357	2347	2357
10°	2350	2347	2362
15°	2336	2342	2364
20°	2321	2337	2369
25°	2292	2326	2372
30°	2266	2318	2381
35°	2228	2306	2384
40°	2188	2292	2406
45°	2139	2289	2444
50°	2070	2287	2509
55°	1996	2303	2600
60°	1883	2338	2715
65°	1739	2393	2867
70°	1519	2478	3055
75°	1232	2605	3156
80°	909	2554	2554
85°	698	1883	2125



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.0	3.1
10°-20°	453.7	8.8
20°-30°	690.6	13.4
30°-40°	838.6	16.3
40°-50°	886.0	17.2
50°-60°	836.0	16.3
60°-70°	695.1	13.5
70°-80°	457.3	8.9
80°-90°	124.7	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°	1302.3	25.3
0°-40°	2140.9	41.7
0°-60°	3862.9	75.2
0°-90°	5140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5140.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1664	1664	1657	1664	1664	158
15°	1599	1601	1603	1618	1618	451
25°	1472	1480	1493	1519	1524	679
35°	1293	1308	1339	1373	1384	810
45°	1072	1093	1147	1203	1224	825
55°	811	846	936	1024	1056	723
65°	521	581	717	822	858	515
75°	226	329	478	566	579	243
85°	43	95	116	129	131	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1667.7	1667.7	1667.7	1667.7	1667.7
2.5°	1669.9	1667.7	1659.0	1667.7	1667.7
5°	1663.5	1663.5	1656.8	1663.5	1663.5
7.5°	1652.6	1652.6	1648.3	1656.8	1656.8
10°	1639.8	1639.8	1637.4	1648.3	1648.3
12.5°	1620.4	1622.5	1620.4	1633.1	1633.1
15°	1598.8	1600.9	1603.1	1618.2	1618.2
17.5°	1570.9	1575.1	1579.4	1596.7	1598.8
20°	1545.1	1547.2	1555.7	1575.1	1577.3
22.5°	1510.5	1517.1	1527.8	1547.2	1553.6
25°	1471.9	1480.4	1493.4	1519.2	1523.5
27.5°	1435.2	1441.8	1458.8	1486.8	1495.6
30°	1390.2	1400.8	1422.4	1450.3	1461.0
32.5°	1347.1	1357.7	1383.5	1413.9	1422.4
35°	1293.3	1308.2	1338.6	1372.9	1383.5
37.5°	1241.7	1256.6	1293.3	1331.9	1344.9
40°	1187.7	1205.0	1243.8	1289.1	1306.1
42.5°	1129.7	1153.3	1196.5	1245.9	1265.4
45°	1071.6	1093.2	1147.0	1202.8	1224.4
47.5°	1009.1	1034.9	1093.2	1159.7	1185.5
50°	942.6	974.8	1041.6	1114.8	1142.7
52.5°	875.8	912.2	987.6	1069.5	1099.6
55°	811.1	845.7	935.9	1024.3	1056.5
57.5°	740.3	783.2	882.2	976.9	1009.1
60°	667.1	714.5	828.4	927.4	961.7
62.5°	594.0	647.7	776.8	875.8	912.2
65°	520.8	580.9	716.6	822.0	858.5
67.5°	449.7	516.5	660.5	766.1	802.6
70°	368.0	451.9	600.4	703.6	740.3
72.5°	292.7	389.6	542.3	639.2	671.4
75°	225.9	329.2	477.7	566.0	578.8
77.5°	165.8	269.0	410.9	441.2	443.3
80°	111.8	215.3	314.3	309.8	314.3
82.5°	73.2	161.3	198.0	221.7	223.8
85°	43.1	94.7	116.3	129.1	131.2
87.5°	21.6	32.2	41.0	43.1	47.4
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)