

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: P843162

Luminaire Tested: **24CZ2-65HE-HRP-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843162  
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-UNV-B50  
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

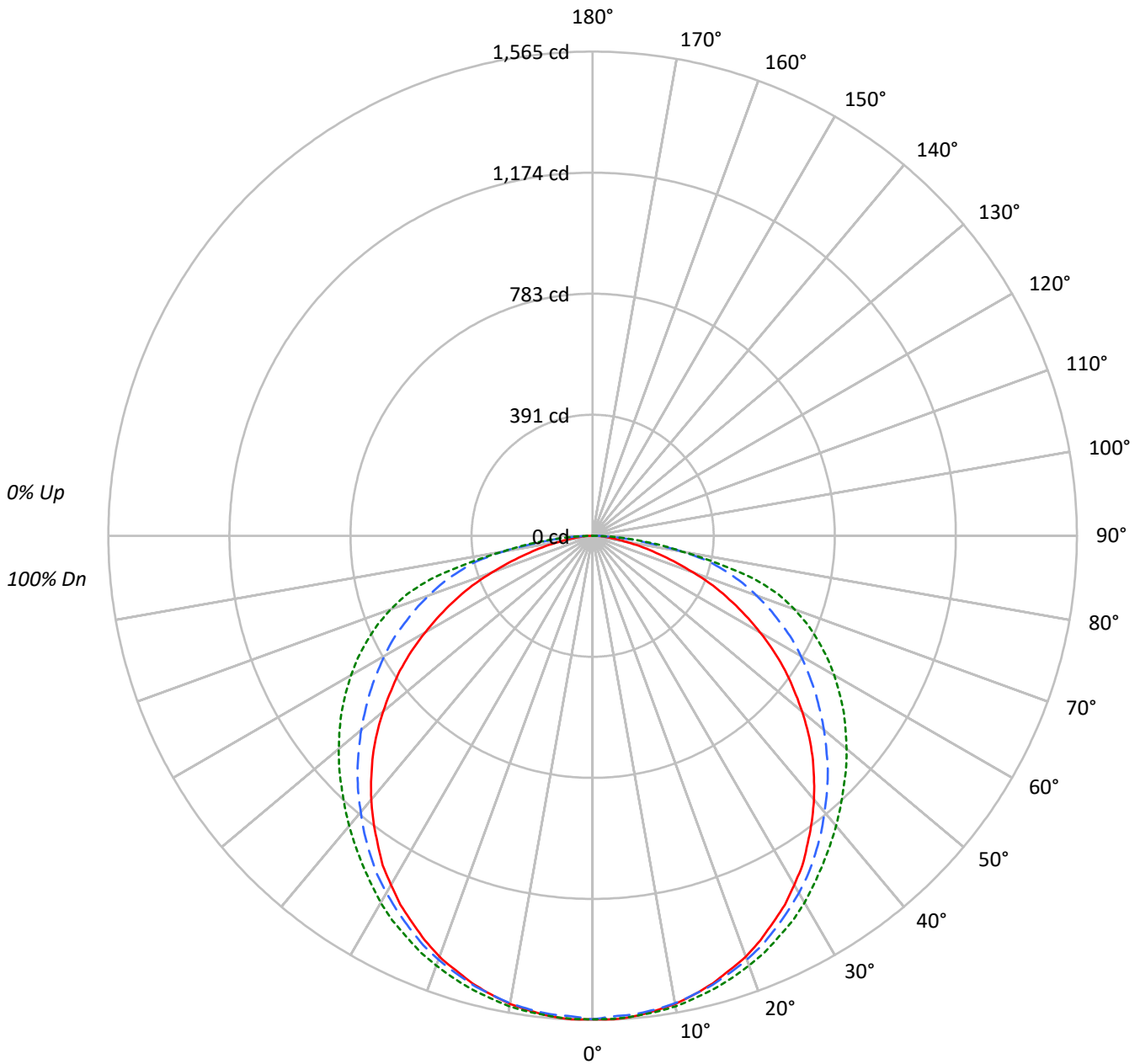
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4817.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 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°	2206	2206	2206
5°	2209	2200	2209
10°	2202	2199	2214
15°	2189	2195	2216
20°	2175	2190	2220
25°	2148	2180	2223
30°	2123	2172	2231
35°	2088	2161	2234
40°	2051	2148	2255
45°	2005	2145	2290
50°	1939	2143	2351
55°	1870	2158	2436
60°	1765	2192	2544
65°	1630	2243	2687
70°	1423	2322	2863
75°	1154	2441	2958
80°	851	2394	2394
85°	654	1765	1992



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.0	3.1
10°-20°	425.2	8.8
20°-30°	647.2	13.4
30°-40°	785.9	16.3
40°-50°	830.3	17.2
50°-60°	783.5	16.3
60°-70°	651.4	13.5
70°-80°	428.6	8.9
80°-90°	116.8	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°	1220.4	25.3
0°-40°	2006.3	41.7
0°-60°	3620.1	75.2
0°-90°	4817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4817.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1559	1559	1553	1559	1559	148
15°	1498	1500	1502	1517	1517	423
25°	1379	1387	1400	1424	1428	636
35°	1212	1226	1254	1287	1297	759
45°	1004	1024	1075	1127	1148	773
55°	760	793	877	960	990	677
65°	488	544	672	770	804	482
75°	212	308	448	530	542	228
85°	40	89	109	121	123	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1562.9	1562.9	1562.9	1562.9	1562.9
2.5°	1564.9	1562.9	1554.7	1562.9	1562.9
5°	1558.9	1558.9	1552.7	1558.9	1558.9
7.5°	1548.7	1548.7	1544.7	1552.7	1552.7
10°	1536.8	1536.8	1534.5	1544.7	1544.7
12.5°	1518.5	1520.5	1518.5	1530.5	1530.5
15°	1498.3	1500.3	1502.3	1516.6	1516.6
17.5°	1472.2	1476.2	1480.1	1496.4	1498.3
20°	1448.0	1450.0	1457.9	1476.2	1478.1
22.5°	1415.5	1421.8	1431.8	1450.0	1456.0
25°	1379.4	1387.4	1399.6	1423.8	1427.8
27.5°	1345.0	1351.2	1367.2	1393.4	1401.6
30°	1302.8	1312.8	1333.0	1359.2	1369.2
32.5°	1262.4	1272.4	1296.6	1325.0	1333.0
35°	1212.0	1226.0	1254.4	1286.6	1296.6
37.5°	1163.7	1177.6	1212.0	1248.2	1260.4
40°	1113.0	1129.2	1165.7	1208.1	1224.0
42.5°	1058.7	1080.9	1121.3	1167.7	1185.9
45°	1004.3	1024.5	1074.9	1127.3	1147.5
47.5°	945.7	969.9	1024.5	1086.9	1111.0
50°	883.3	913.5	976.1	1044.7	1070.9
52.5°	820.7	854.9	925.5	1002.3	1030.5
55°	760.1	792.6	877.1	959.9	990.1
57.5°	693.8	734.0	826.7	915.5	945.7
60°	625.2	669.6	776.4	869.1	901.3
62.5°	556.6	607.0	728.0	820.7	854.9
65°	488.1	544.4	671.6	770.4	804.5
67.5°	421.5	484.1	619.0	718.0	752.2
70°	344.9	423.5	562.6	659.4	693.8
72.5°	274.3	365.1	508.3	599.0	629.2
75°	211.7	308.5	447.7	530.5	542.4
77.5°	155.4	252.1	385.1	413.5	415.5
80°	104.7	201.8	294.5	290.3	294.5
82.5°	68.6	151.1	185.5	207.7	209.7
85°	40.4	88.8	109.0	121.0	123.0
87.5°	20.2	30.2	38.4	40.4	44.4
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)