

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: P732267

Luminaire Tested: **24CZ2-45HE-HRP-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732267  
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: 24CZ2-45HE-HRP-B2750-W2D-3000K  
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

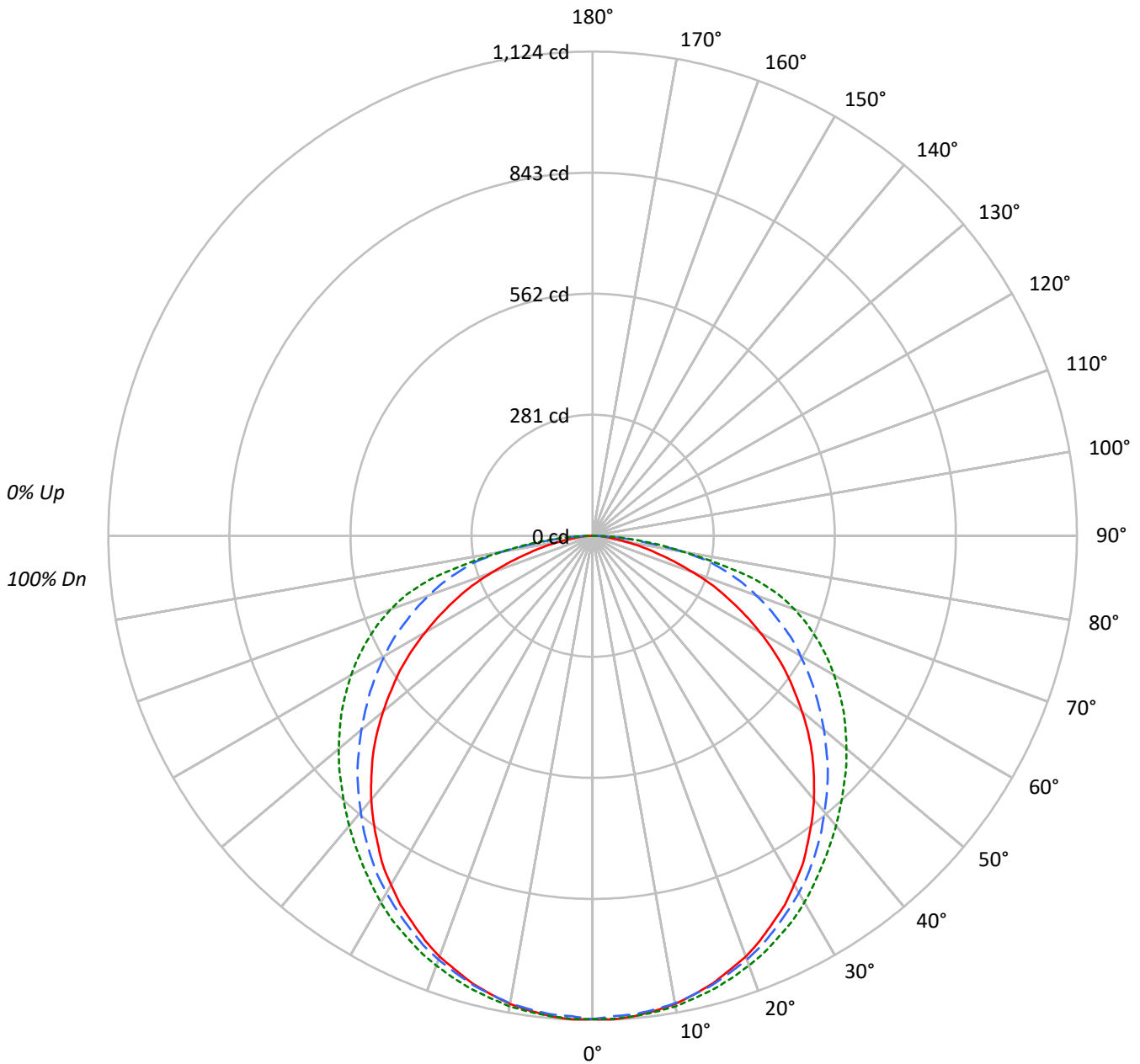
Lumens per Lamp: N/A  
Luminaire Lumens: 3459.0 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 33  
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

TEST NUMBER: P732267

CATALOG NUMBER: 24CZ2-45HE-HRP-B2750-W2D-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P732267

CATALOG NUMBER: 24CZ2-45HE-HRP-B2750-W2D-3000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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°	1584	1584	1584
5°	1586	1580	1586
10°	1581	1579	1590
15°	1572	1576	1591
20°	1562	1572	1594
25°	1542	1565	1597
30°	1525	1560	1602
35°	1499	1552	1604
40°	1473	1542	1619
45°	1439	1541	1645
50°	1393	1539	1688
55°	1343	1550	1749
60°	1267	1574	1827
65°	1170	1611	1929
70°	1022	1667	2056
75°	829	1753	2124
80°	611	1719	1719
85°	470	1268	1430



TEST NUMBER: P732267

CATALOG NUMBER: 24CZ2-45HE-HRP-B2750-W2D-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.3	3.1
10°-20°	305.3	8.8
20°-30°	464.8	13.4
30°-40°	564.3	16.3
40°-50°	596.2	17.2
50°-60°	562.6	16.3
60°-70°	467.8	13.5
70°-80°	307.8	8.9
80°-90°	83.9	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°	876.4	25.3
0°-40°	1440.7	41.7
0°-60°	2599.5	75.2
0°-90°	3459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3459.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1120	1120	1115	1120	1120	106
15°	1076	1077	1079	1089	1089	303
25°	990	996	1005	1022	1025	457
35°	870	880	901	924	931	545
45°	721	736	772	810	824	555
55°	546	569	630	689	711	486
65°	350	391	482	553	578	346
75°	152	222	322	381	390	164
85°	29	64	78	87	88	35
90°	0	0	0	0	0	



TEST NUMBER: P732267

CATALOG NUMBER: 24CZ2-45HE-HRP-B2750-W2D-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1122.3	1122.3	1122.3	1122.3	1122.3
2.5°	1123.8	1122.3	1116.4	1122.3	1122.3
5°	1119.5	1119.5	1115.0	1119.5	1119.5
7.5°	1112.1	1112.1	1109.2	1115.0	1115.0
10°	1103.5	1103.5	1101.9	1109.2	1109.2
12.5°	1090.4	1091.9	1090.4	1099.0	1099.0
15°	1075.9	1077.4	1078.8	1089.0	1089.0
17.5°	1057.1	1060.0	1062.9	1074.5	1075.9
20°	1039.8	1041.2	1046.9	1060.0	1061.4
22.5°	1016.5	1021.0	1028.1	1041.2	1045.5
25°	990.5	996.2	1005.0	1022.4	1025.3
27.5°	965.8	970.3	981.7	1000.5	1006.5
30°	935.5	942.7	957.2	976.0	983.2
32.5°	906.5	913.7	931.1	951.5	957.2
35°	870.3	880.4	900.8	923.9	931.1
37.5°	835.6	845.6	870.3	896.3	905.1
40°	799.3	810.9	837.0	867.5	878.9
42.5°	760.2	776.1	805.2	838.5	851.5
45°	721.2	735.7	771.9	809.5	824.0
47.5°	679.1	696.5	735.7	780.4	797.8
50°	634.3	656.0	700.9	750.2	769.0
52.5°	589.4	613.9	664.6	719.7	740.0
55°	545.8	569.1	629.8	689.3	711.0
57.5°	498.2	527.0	593.7	657.4	679.1
60°	449.0	480.8	557.5	624.1	647.2
62.5°	399.7	435.9	522.7	589.4	613.9
65°	350.5	390.9	482.3	553.2	577.7
67.5°	302.7	347.6	444.5	515.6	540.1
70°	247.7	304.1	404.0	473.5	498.2
72.5°	197.0	262.2	365.0	430.2	451.8
75°	152.0	221.5	321.5	380.9	389.5
77.5°	111.6	181.1	276.5	296.9	298.4
80°	75.2	144.9	211.5	208.5	211.5
82.5°	49.2	108.5	133.2	149.2	150.6
85°	29.0	63.8	78.3	86.9	88.3
87.5°	14.5	21.7	27.6	29.0	31.9
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)