

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: P732241

Luminaire Tested: **24CZ2-45-HRP-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732241  
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: 24CZ2-45-HRP-B2750-W2D-2700K  
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

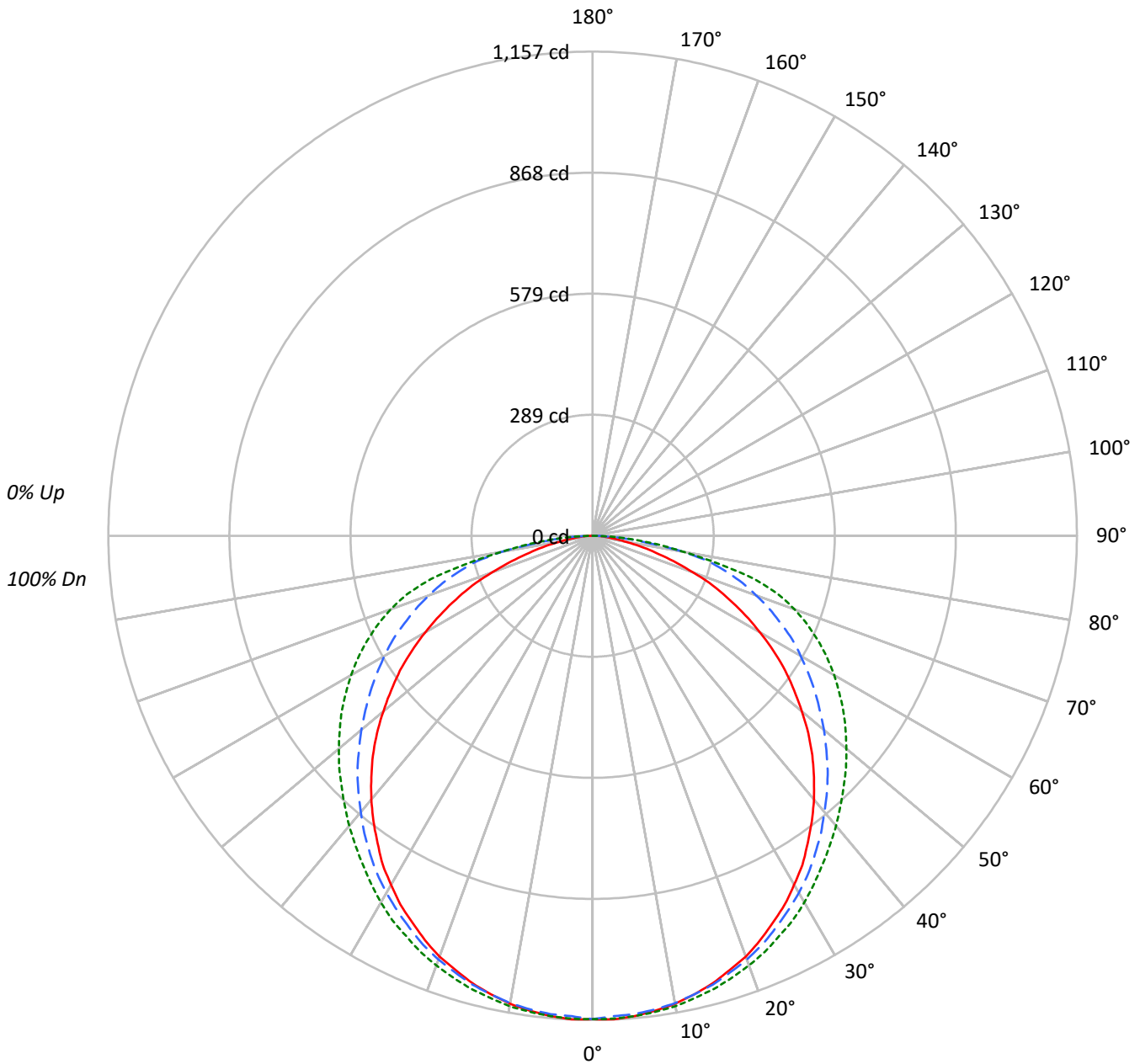
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3560.0 lumens  
Efficiency: N/A  
Efficacy: 98.9 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): 36  
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					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°	1630	1630	1630
5°	1632	1626	1632
10°	1628	1625	1636
15°	1618	1622	1638
20°	1607	1618	1641
25°	1587	1611	1643
30°	1569	1606	1649
35°	1543	1597	1651
40°	1516	1587	1667
45°	1481	1586	1693
50°	1433	1584	1738
55°	1382	1595	1800
60°	1304	1620	1880
65°	1205	1658	1986
70°	1052	1716	2116
75°	853	1804	2186
80°	629	1769	1769
85°	484	1304	1472



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.4	3.1
10°-20°	314.2	8.8
20°-30°	478.3	13.4
30°-40°	580.8	16.3
40°-50°	613.6	17.2
50°-60°	579.0	16.3
60°-70°	481.5	13.5
70°-80°	316.8	8.9
80°-90°	86.3	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°	902.0	25.3
0°-40°	1482.8	41.7
0°-60°	2675.4	75.2
0°-90°	3560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3560.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1152	1152	1148	1152	1152	109
15°	1107	1109	1110	1121	1121	312
25°	1019	1025	1034	1052	1055	470
35°	896	906	927	951	958	561
45°	742	757	794	833	848	572
55°	562	586	648	709	732	500
65°	361	402	496	569	595	357
75°	156	228	331	392	401	169
85°	30	66	80	89	91	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1155.1	1155.1	1155.1	1155.1	1155.1
2.5°	1156.6	1155.1	1149.0	1155.1	1155.1
5°	1152.1	1152.1	1147.5	1152.1	1152.1
7.5°	1144.6	1144.6	1141.6	1147.5	1147.5
10°	1135.7	1135.7	1134.1	1141.6	1141.6
12.5°	1122.3	1123.8	1122.3	1131.1	1131.1
15°	1107.4	1108.8	1110.3	1120.8	1120.8
17.5°	1088.0	1090.9	1093.9	1105.9	1107.4
20°	1070.1	1071.6	1077.5	1090.9	1092.4
22.5°	1046.2	1050.8	1058.1	1071.6	1076.0
25°	1019.4	1025.3	1034.4	1052.2	1055.2
27.5°	994.0	998.6	1010.4	1029.8	1035.8
30°	962.9	970.2	985.2	1004.5	1011.9
32.5°	933.0	940.4	958.2	979.3	985.2
35°	895.8	906.1	927.1	950.9	958.2
37.5°	860.0	870.3	895.8	922.5	931.5
40°	822.6	834.6	861.5	892.8	904.6
42.5°	782.4	798.8	828.7	863.0	876.4
45°	742.2	757.2	794.4	833.1	848.0
47.5°	698.9	716.8	757.2	803.2	821.1
50°	652.8	675.1	721.4	772.1	791.4
52.5°	606.6	631.8	684.0	740.8	761.6
55°	561.8	585.7	648.2	709.4	731.7
57.5°	512.8	542.4	611.0	676.6	698.9
60°	462.1	494.9	573.8	642.3	666.1
62.5°	411.4	448.6	538.0	606.6	631.8
65°	360.7	402.4	496.4	569.3	594.6
67.5°	311.5	357.8	457.5	530.6	555.9
70°	254.9	313.0	415.8	487.3	512.8
72.5°	202.7	269.8	375.6	442.7	465.0
75°	156.5	228.0	330.8	392.0	400.9
77.5°	114.8	186.3	284.6	305.6	307.1
80°	77.4	149.1	217.7	214.5	217.7
82.5°	50.7	111.7	137.1	153.5	155.0
85°	29.9	65.6	80.5	89.4	90.9
87.5°	14.9	22.3	28.4	29.9	32.8
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)