

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: P732266

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732266  
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-2700K  
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

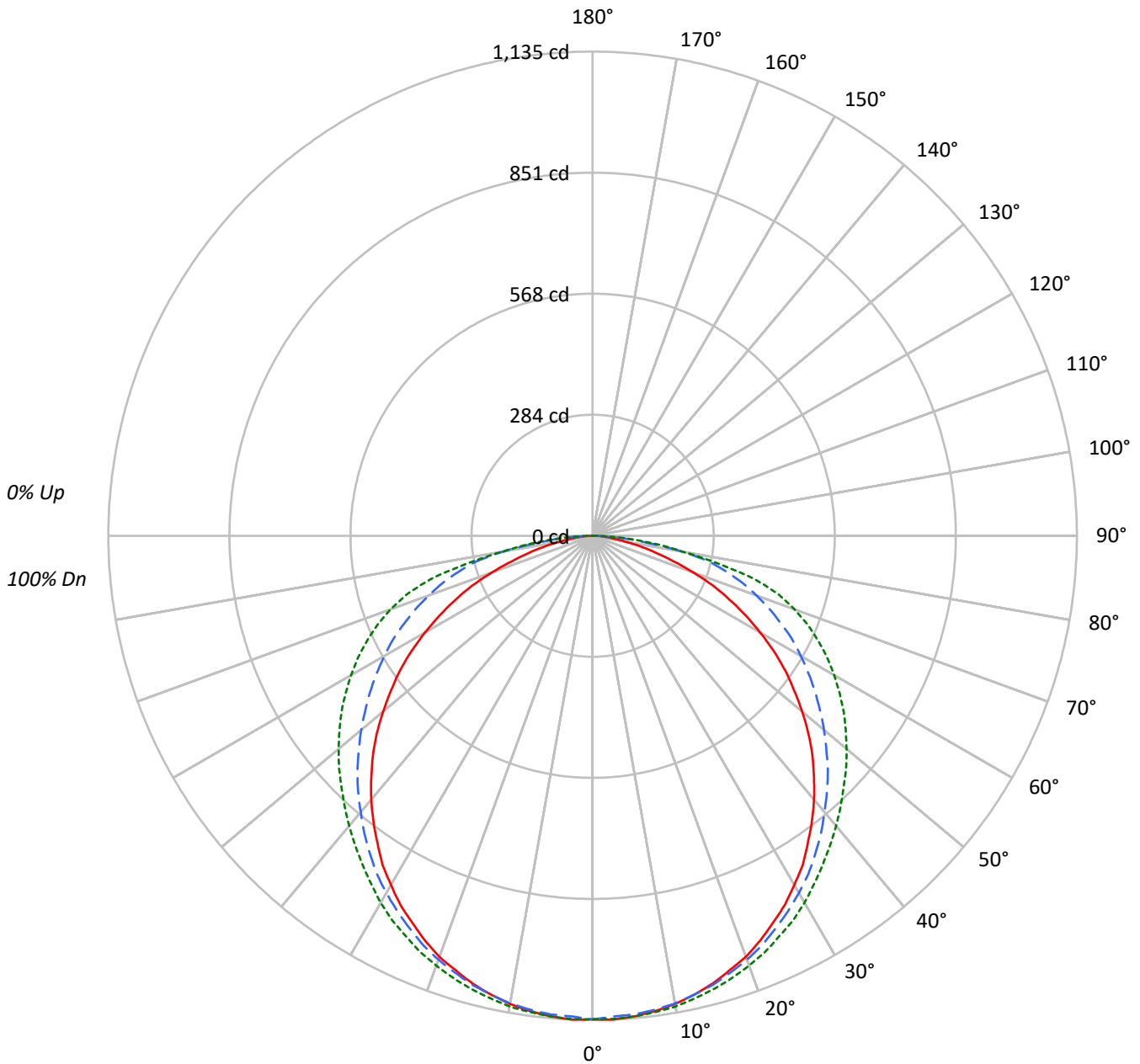
Lumens per Lamp: N/A  
Luminaire Lumens: 3494.0 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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### Luminous Intensity Polar Plot





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

RF	20				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				100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82				82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67				67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56				56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48				48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36				36
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28				28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25				25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23				23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1600	1600	1600
5°	1602	1596	1602
10°	1597	1595	1606
15°	1588	1592	1607
20°	1577	1588	1610
25°	1558	1581	1613
30°	1540	1576	1618
35°	1515	1568	1620
40°	1487	1558	1636
45°	1454	1556	1661
50°	1407	1555	1706
55°	1357	1565	1767
60°	1280	1589	1845
65°	1182	1627	1949
70°	1032	1684	2077
75°	838	1771	2145
80°	618	1736	1736
85°	474	1281	1444



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.4	3.1
10°-20°	308.4	8.8
20°-30°	469.5	13.4
30°-40°	570.1	16.3
40°-50°	602.3	17.2
50°-60°	568.3	16.3
60°-70°	472.5	13.5
70°-80°	310.9	8.9
80°-90°	84.8	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°	885.2	25.3
0°-40°	1455.3	41.7
0°-60°	2625.8	75.2
0°-90°	3494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3494.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1131	1131	1126	1131	1131	107
15°	1087	1088	1090	1100	1100	307
25°	1000	1006	1015	1033	1036	462
35°	879	889	910	933	940	550
45°	728	743	780	818	832	561
55°	551	575	636	696	718	491
65°	354	395	487	559	584	350
75°	154	224	325	385	393	166
85°	29	64	79	88	89	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1133.7	1133.7	1133.7	1133.7	1133.7
2.5°	1135.1	1133.7	1127.7	1133.7	1133.7
5°	1130.8	1130.8	1126.3	1130.8	1130.8
7.5°	1123.4	1123.4	1120.5	1126.3	1126.3
10°	1114.7	1114.7	1113.1	1120.5	1120.5
12.5°	1101.5	1102.9	1101.5	1110.2	1110.2
15°	1086.8	1088.3	1089.7	1100.0	1100.0
17.5°	1067.8	1070.7	1073.6	1085.4	1086.8
20°	1050.3	1051.7	1057.5	1070.7	1072.2
22.5°	1026.8	1031.3	1038.5	1051.7	1056.1
25°	1000.5	1006.3	1015.2	1032.7	1035.6
27.5°	975.6	980.1	991.7	1010.7	1016.6
30°	945.0	952.2	966.9	985.9	993.1
32.5°	915.7	922.9	940.5	961.1	966.9
35°	879.2	889.3	909.9	933.2	940.5
37.5°	844.1	854.2	879.2	905.4	914.2
40°	807.3	819.1	845.5	876.3	887.8
42.5°	767.9	784.0	813.3	847.0	860.2
45°	728.5	743.1	779.7	817.6	832.3
47.5°	686.0	703.5	743.1	788.3	805.9
50°	640.7	662.6	708.0	757.8	776.8
52.5°	595.3	620.1	671.3	727.0	747.5
55°	551.4	574.9	636.2	696.3	718.2
57.5°	503.3	532.4	599.7	664.1	686.0
60°	453.5	485.7	563.1	630.4	653.8
62.5°	403.8	440.3	528.0	595.3	620.1
65°	354.0	394.9	487.2	558.8	583.6
67.5°	305.7	351.1	449.0	520.8	545.6
70°	250.2	307.2	408.1	478.3	503.3
72.5°	199.0	264.8	368.7	434.5	456.4
75°	153.6	223.8	324.7	384.8	393.4
77.5°	112.7	182.9	279.3	299.9	301.4
80°	76.0	146.3	213.6	210.6	213.6
82.5°	49.7	109.6	134.6	150.7	152.1
85°	29.3	64.4	79.1	87.7	89.2
87.5°	14.7	21.9	27.9	29.3	32.2
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)