

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: P732271

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732271  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-45HE-RDP-B2750-W2D-2700K  
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RDP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

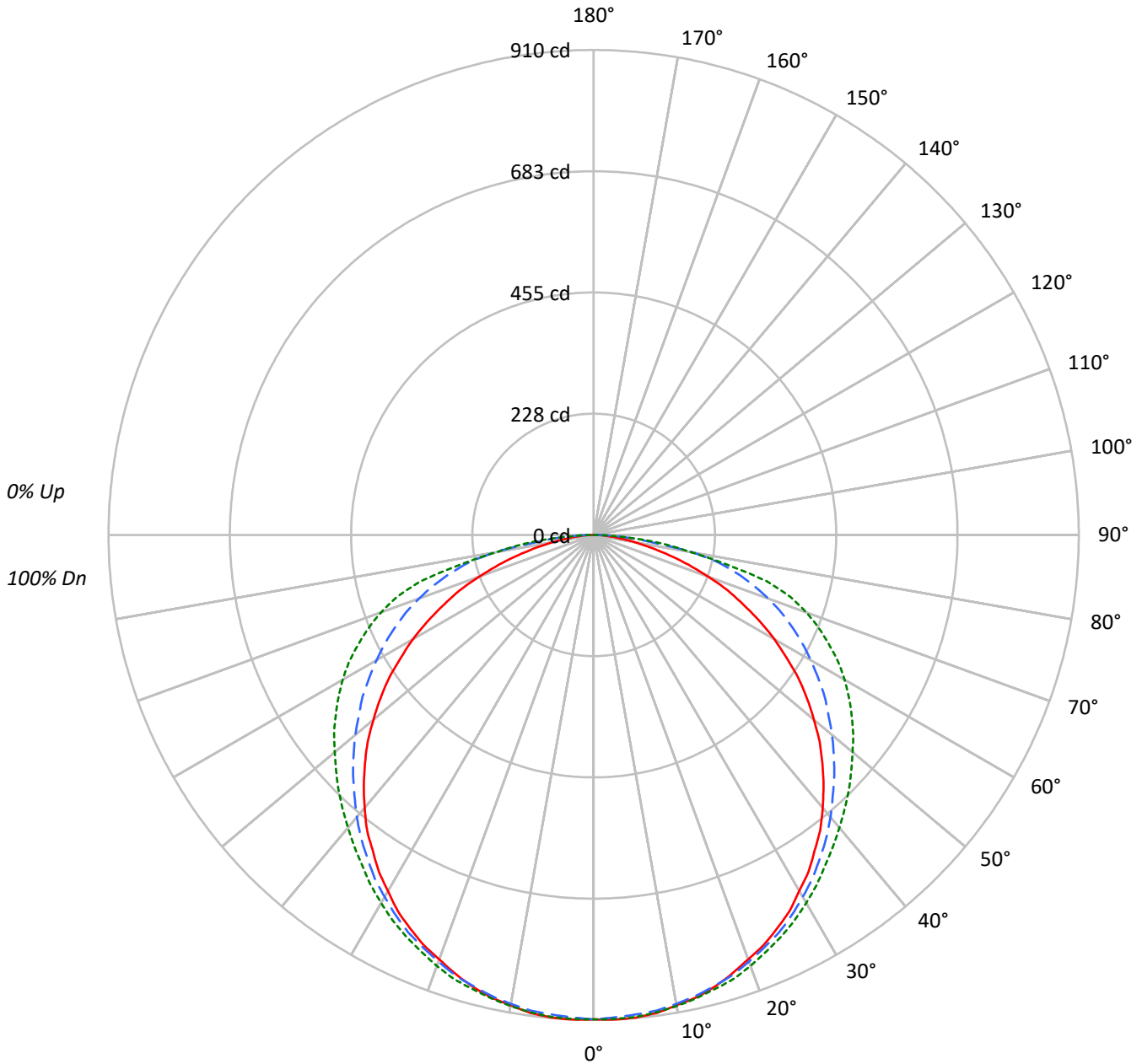
Lumens per Lamp: N/A  
Luminaire Lumens: 2891.0 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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				
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	100	96	92	96	93	89	92	89	87	88	86	84	82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22			

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

	0°	45°	90°
0°	1283	1283	1283
5°	1288	1280	1286
10°	1284	1280	1287
15°	1282	1280	1288
20°	1273	1279	1292
25°	1269	1282	1295
30°	1257	1278	1299
35°	1245	1275	1305
40°	1231	1273	1321
45°	1211	1274	1351
50°	1184	1281	1392
55°	1154	1302	1454
60°	1105	1328	1534
65°	1034	1374	1628
70°	941	1438	1752
75°	798	1517	1830
80°	630	1526	1480
85°	465	1163	1299



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.2	3.0
10°-20°	248.2	8.6
20°-30°	379.5	13.1
30°-40°	464.0	16.0
40°-50°	494.5	17.1
50°-60°	472.8	16.4
60°-70°	400.5	13.9
70°-80°	269.2	9.3
80°-90°	75.9	2.6
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°	714.0	24.7
0°-40°	1178.0	40.7
0°-60°	2145.3	74.2
0°-90°	2891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2891.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	909	908	903	908	908	86
15°	878	878	876	883	882	247
25°	815	817	823	830	832	375
35°	723	728	740	754	757	453
45°	607	617	638	665	677	468
55°	469	486	529	571	591	418
65°	310	341	412	466	488	308
75°	146	199	278	326	336	157
85°	29	59	72	78	80	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	909.1	909.1	909.1	909.1	909.1
2.5°	910.5	910.5	906.2	909.1	909.1
5°	909.1	907.8	903.4	907.8	907.8
7.5°	904.8	903.4	900.5	904.8	903.4
10°	896.2	896.2	893.4	897.7	897.7
12.5°	889.1	887.7	886.1	891.9	890.5
15°	877.7	877.7	876.1	883.4	881.8
17.5°	863.3	864.7	866.1	871.8	873.4
20°	847.4	850.4	851.7	860.4	860.4
22.5°	833.1	834.6	837.4	846.0	846.0
25°	814.6	817.3	823.0	830.3	831.7
27.5°	795.9	797.3	804.5	814.6	815.9
30°	771.5	775.8	784.3	795.9	797.3
32.5°	749.9	754.2	764.2	775.8	778.6
35°	722.8	728.5	739.9	754.2	757.2
37.5°	698.4	702.7	717.0	732.8	737.1
40°	668.3	676.8	691.1	709.8	717.0
42.5°	638.2	646.7	664.0	688.3	697.0
45°	606.6	616.6	638.2	665.3	676.8
47.5°	575.1	586.5	610.9	642.3	655.3
50°	539.1	553.5	583.6	619.5	633.9
52.5°	504.7	522.0	555.0	595.1	613.8
55°	468.9	486.0	529.1	570.8	590.8
57.5°	428.8	451.6	499.0	546.4	567.8
60°	391.5	412.9	470.3	522.0	543.4
62.5°	351.3	380.0	441.6	496.1	517.7
65°	309.7	341.3	411.5	466.0	487.6
67.5°	272.5	306.9	381.4	435.9	457.5
70°	228.1	270.9	348.4	402.9	424.5
72.5°	186.4	233.8	314.0	367.1	387.1
75°	146.3	199.4	278.2	325.6	335.6
77.5°	108.9	165.0	240.9	260.9	253.8
80°	77.5	131.9	187.8	177.7	182.1
82.5°	50.1	100.5	116.2	131.9	136.3
85°	28.7	58.8	71.8	77.5	80.2
87.5°	13.0	21.4	28.7	28.7	27.3
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)