

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: P881290

Luminaire Tested: **24CZ2-75VHE-RDP-UNV-B35**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P881290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-75VHE-RDP-UNV-B35  
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

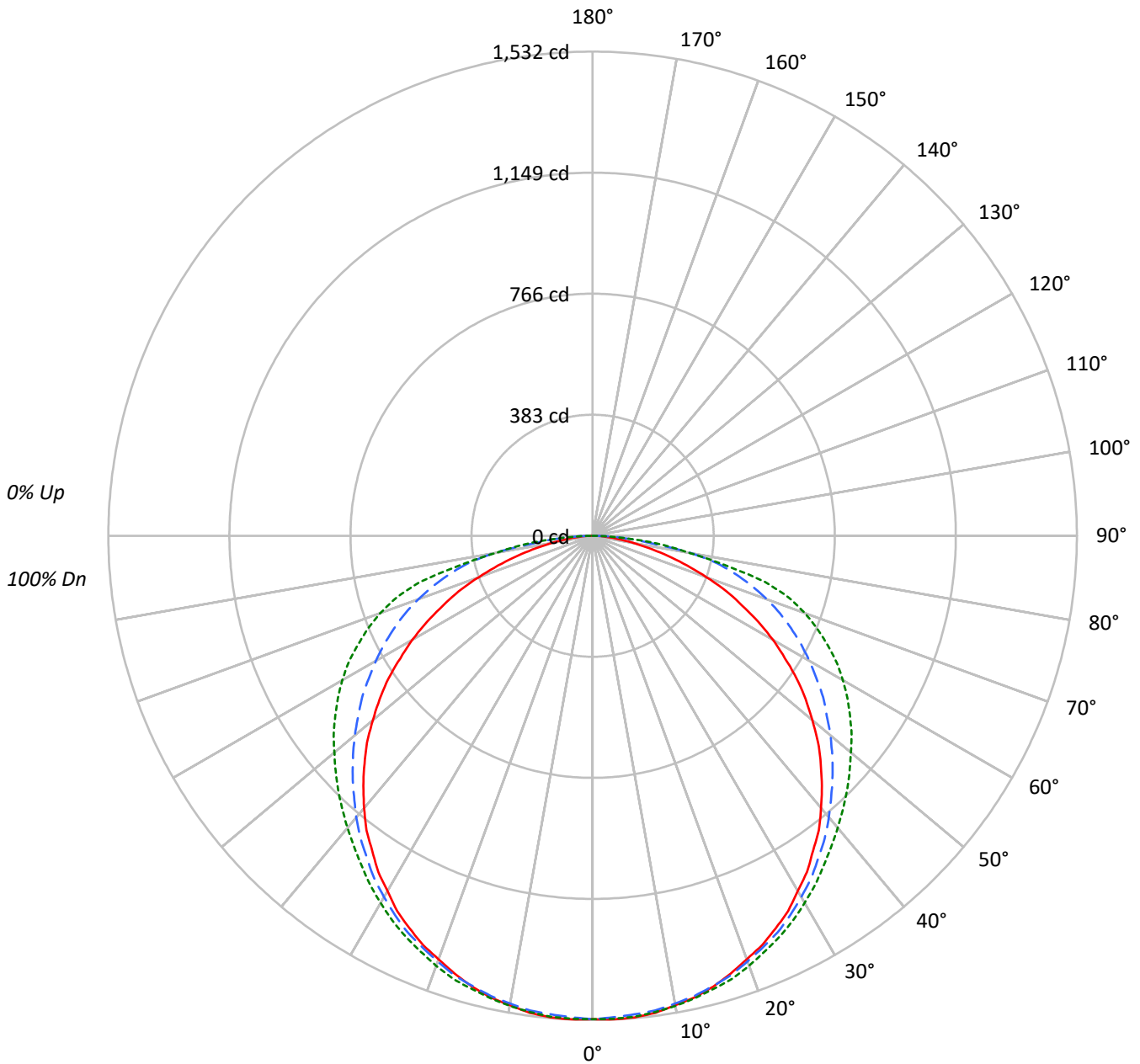
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4864.0 lumens  
Efficiency: N/A  
Efficacy: 81.1 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): 60  
Input Voltage (V): NR  
Input Current (Ain): 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	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°	2159	2159	2159
5°	2167	2153	2164
10°	2161	2154	2165
15°	2157	2154	2168
20°	2141	2152	2174
25°	2134	2156	2179
30°	2115	2151	2186
35°	2095	2145	2195
40°	2072	2142	2222
45°	2037	2143	2273
50°	1991	2156	2342
55°	1941	2191	2446
60°	1859	2234	2581
65°	1740	2312	2739
70°	1583	2420	2947
75°	1341	2553	3079
80°	1059	2568	2489
85°	782	1953	2189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.1	3.0
10°-20°	417.6	8.6
20°-30°	638.6	13.1
30°-40°	780.6	16.0
40°-50°	832.0	17.1
50°-60°	795.5	16.4
60°-70°	673.9	13.9
70°-80°	452.9	9.3
80°-90°	127.8	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°	1201.3	24.7
0°-40°	1981.9	40.7
0°-60°	3609.4	74.2
0°-90°	4864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4864.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1530	1527	1520	1527	1527	145
15°	1476	1476	1474	1486	1484	416
25°	1370	1375	1385	1397	1399	632
35°	1216	1226	1245	1269	1274	762
45°	1021	1038	1074	1120	1139	787
55°	789	818	890	960	994	703
65°	521	574	692	784	820	517
75°	246	335	468	548	565	263
85°	48	99	121	130	135	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1529.7	1529.7	1529.7	1529.7	1529.7
2.5°	1532.0	1532.0	1524.7	1529.7	1529.7
5°	1529.7	1527.3	1520.0	1527.3	1527.3
7.5°	1522.4	1520.0	1515.1	1522.4	1520.0
10°	1508.0	1508.0	1503.1	1510.4	1510.4
12.5°	1495.8	1493.4	1491.0	1500.7	1498.3
15°	1476.4	1476.4	1474.1	1486.1	1483.7
17.5°	1452.4	1454.8	1457.4	1467.0	1469.4
20°	1425.8	1430.7	1433.1	1447.7	1447.7
22.5°	1401.8	1404.1	1409.1	1423.4	1423.4
25°	1370.4	1375.1	1384.8	1396.8	1399.4
27.5°	1338.9	1341.4	1353.5	1370.4	1372.8
30°	1297.9	1305.2	1319.8	1338.9	1341.4
32.5°	1261.8	1268.9	1285.8	1305.2	1310.1
35°	1215.9	1225.5	1244.9	1268.9	1273.8
37.5°	1174.9	1181.9	1206.2	1232.8	1239.9
40°	1124.5	1138.6	1162.9	1194.2	1206.2
42.5°	1073.6	1088.2	1117.2	1157.9	1172.3
45°	1020.6	1037.5	1073.6	1119.5	1138.6
47.5°	967.6	986.9	1027.9	1080.9	1102.6
50°	907.0	931.3	981.9	1042.2	1066.5
52.5°	849.3	878.3	933.6	1001.3	1032.6
55°	788.8	817.7	890.3	960.3	993.9
57.5°	721.4	759.8	839.6	919.3	955.3
60°	658.7	694.8	791.3	878.3	914.3
62.5°	591.1	639.4	743.0	834.7	871.0
65°	521.1	574.4	692.4	784.0	820.3
67.5°	458.5	516.4	641.7	733.4	769.4
70°	383.5	455.9	586.4	677.8	714.1
72.5°	313.6	393.2	528.4	617.7	651.4
75°	246.0	335.2	468.1	547.7	564.7
77.5°	183.5	277.3	405.2	439.1	427.1
80°	130.3	222.2	315.9	299.0	306.3
82.5°	84.6	168.9	195.5	222.2	229.0
85°	48.3	98.9	120.6	130.3	135.2
87.5°	21.7	36.3	48.3	48.3	45.9
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)