

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: P880959

Luminaire Tested: **24CZ2-60VHE-RDP-B2750-W2D-3500K**

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: P880959  
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: 24CZ2-60VHE-RDP-B2750-W2D-3500K  
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

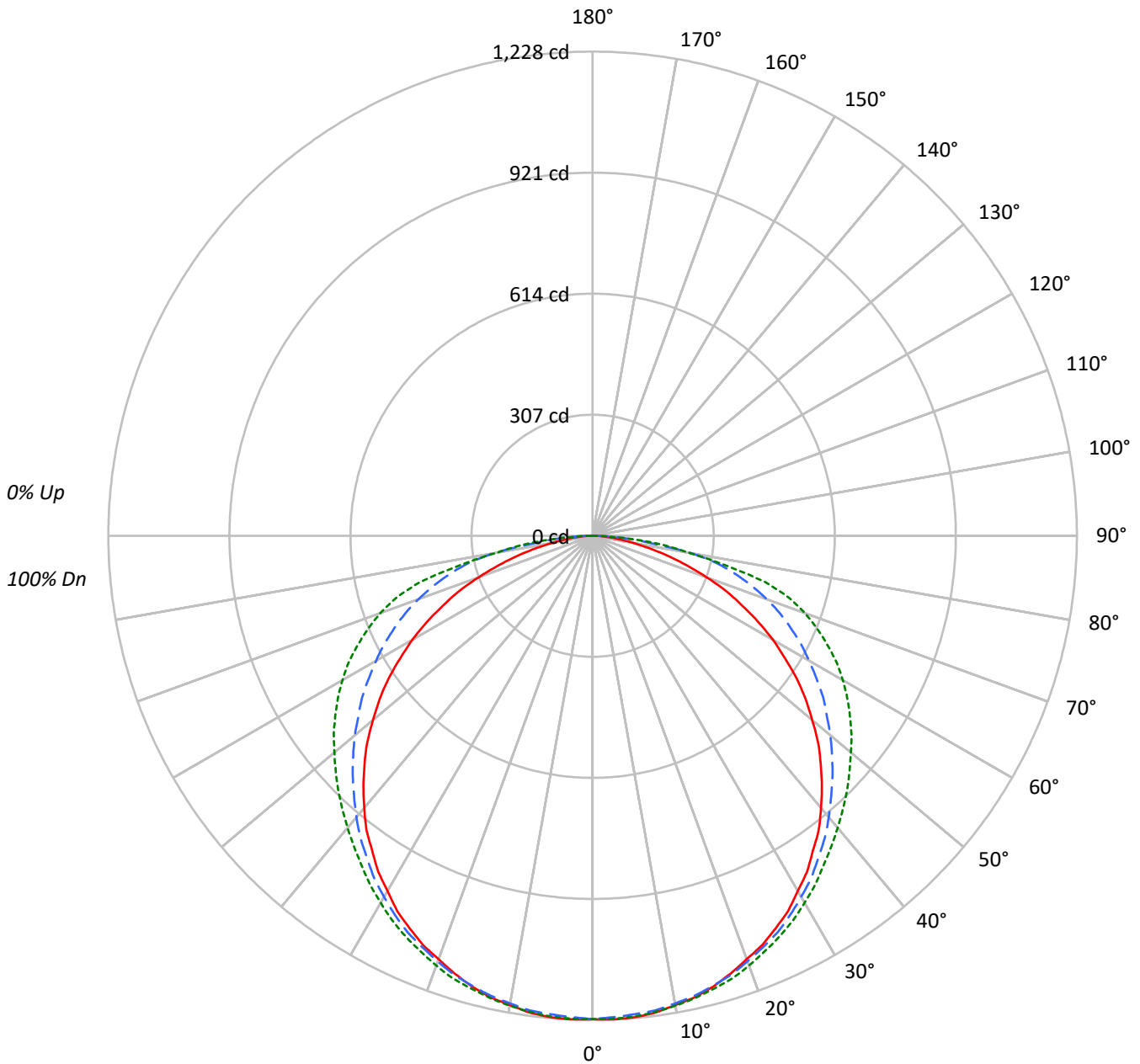
Lumens per Lamp: N/A  
Luminaire Lumens: 3898.0 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
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					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°	1730	1730	1730
5°	1737	1726	1734
10°	1732	1726	1735
15°	1729	1726	1737
20°	1716	1725	1743
25°	1710	1728	1746
30°	1695	1724	1752
35°	1679	1719	1759
40°	1660	1717	1781
45°	1632	1717	1821
50°	1596	1728	1877
55°	1555	1756	1960
60°	1490	1790	2068
65°	1395	1853	2195
70°	1268	1939	2362
75°	1075	2045	2468
80°	849	2058	1995
85°	627	1566	1755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.3	3.0
10°-20°	334.7	8.6
20°-30°	511.8	13.1
30°-40°	625.6	16.0
40°-50°	666.8	17.1
50°-60°	637.5	16.4
60°-70°	540.1	13.9
70°-80°	363.0	9.3
80°-90°	102.4	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°	962.7	24.7
0°-40°	1588.3	40.7
0°-60°	2892.6	74.2
0°-90°	3898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3898.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1226	1226	1226	1226	1226	
5°	1226	1224	1218	1224	1224	116
15°	1183	1183	1181	1191	1189	334
25°	1098	1102	1110	1119	1122	506
35°	974	982	998	1017	1021	610
45°	818	832	860	897	912	631
55°	632	655	714	770	796	563
65°	418	460	555	628	657	415
75°	197	269	375	439	453	211
85°	39	79	97	104	108	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1225.9	1225.9	1225.9	1225.9	1225.9
2.5°	1227.8	1227.8	1221.9	1225.9	1225.9
5°	1225.9	1224.0	1218.1	1224.0	1224.0
7.5°	1220.0	1218.1	1214.2	1220.0	1218.1
10°	1208.5	1208.5	1204.5	1210.4	1210.4
12.5°	1198.7	1196.8	1194.9	1202.7	1200.8
15°	1183.2	1183.2	1181.3	1191.0	1189.1
17.5°	1164.0	1165.8	1167.9	1175.7	1177.5
20°	1142.6	1146.6	1148.5	1160.2	1160.2
22.5°	1123.4	1125.2	1129.2	1140.7	1140.7
25°	1098.3	1102.0	1109.8	1119.4	1121.5
27.5°	1073.0	1075.0	1084.7	1098.3	1100.1
30°	1040.1	1046.0	1057.7	1073.0	1075.0
32.5°	1011.2	1016.9	1030.5	1046.0	1049.9
35°	974.4	982.1	997.6	1016.9	1020.8
37.5°	941.5	947.2	966.7	988.0	993.7
40°	901.1	912.5	931.9	957.0	966.7
42.5°	860.4	872.1	895.3	928.0	939.5
45°	817.9	831.5	860.4	897.2	912.5
47.5°	775.4	790.9	823.7	866.2	883.6
50°	726.9	746.3	786.9	835.3	854.7
52.5°	680.6	703.8	748.2	802.4	827.5
55°	632.1	655.3	713.5	769.5	796.5
57.5°	578.1	608.9	672.9	736.7	765.6
60°	527.9	556.8	634.2	703.8	732.7
62.5°	473.7	512.4	595.5	668.9	698.0
65°	417.6	460.3	554.9	628.3	657.4
67.5°	367.4	413.9	514.3	587.7	616.6
70°	307.4	365.3	469.9	543.2	572.3
72.5°	251.3	315.1	423.5	495.0	522.0
75°	197.1	268.7	375.1	439.0	452.6
77.5°	147.1	222.2	324.7	351.9	342.3
80°	104.4	178.0	253.2	239.6	245.4
82.5°	67.8	135.4	156.7	178.0	183.5
85°	38.7	79.3	96.7	104.4	108.4
87.5°	17.4	29.1	38.7	38.7	36.8
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)