

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: P881247

Luminaire Tested: **24CZ2-60VHE-RDP-UNV-B50**

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: P881247
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-UNV-B50
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

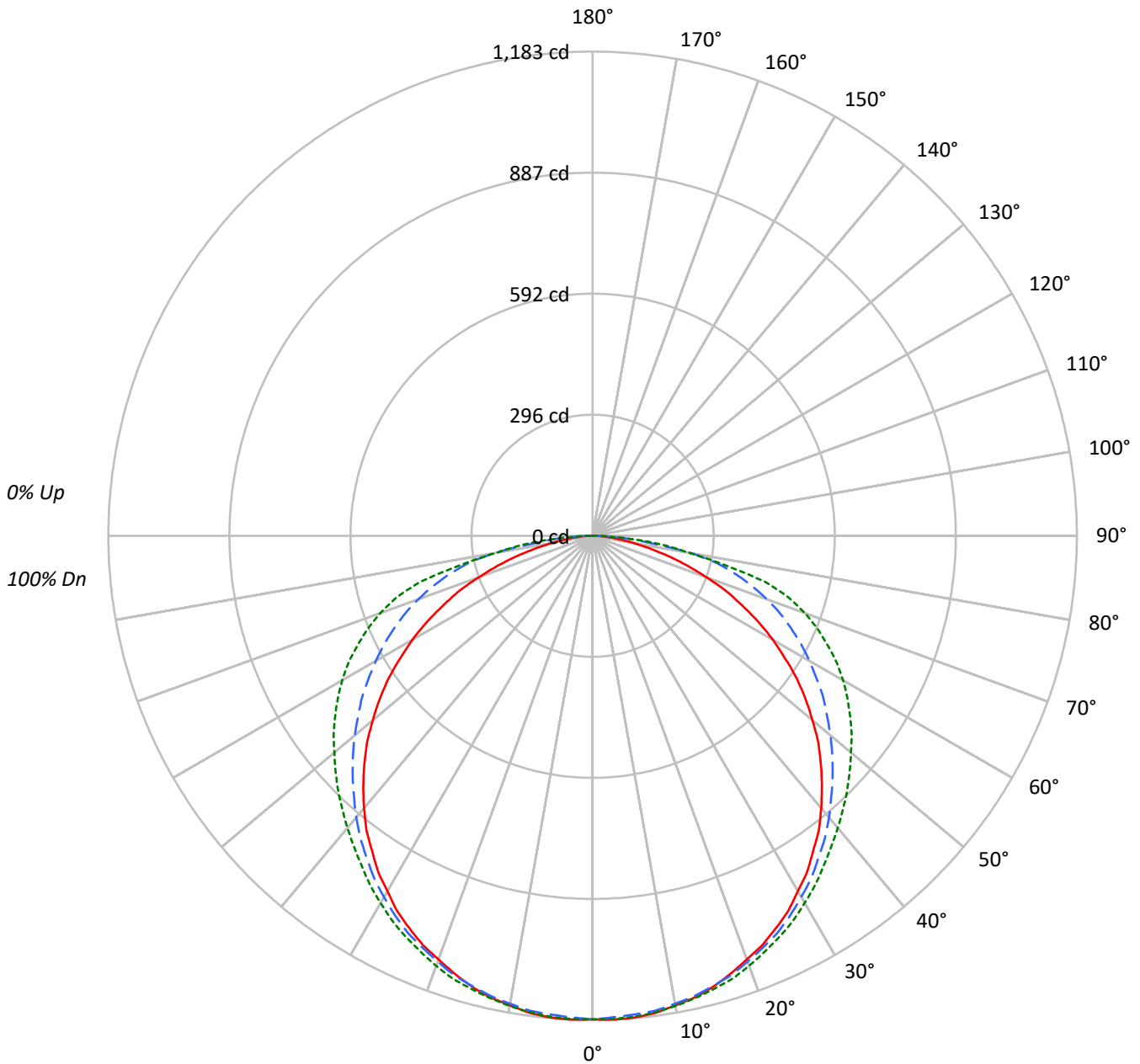
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3757.0 lumens
Efficiency: N/A
Efficacy: 79.9 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

TEST NUMBER: P881247
CATALOG NUMBER: 24CZ2-60VHE-RDP-UNV-B50

Luminous Intensity Polar Plot





TEST NUMBER: P881247

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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°	1667	1667	1667
5°	1674	1663	1671
10°	1669	1664	1672
15°	1666	1664	1675
20°	1654	1662	1679
25°	1648	1666	1683
30°	1634	1661	1689
35°	1618	1657	1695
40°	1600	1655	1717
45°	1573	1655	1755
50°	1538	1665	1809
55°	1499	1692	1889
60°	1436	1725	1993
65°	1344	1786	2116
70°	1222	1869	2276
75°	1036	1972	2379
80°	818	1983	1923
85°	604	1509	1692



TEST NUMBER: P881247

CATALOG NUMBER: 24CZ2-60VHE-RDP-UNV-B50

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	3.0
10°-20°	322.6	8.6
20°-30°	493.2	13.1
30°-40°	602.9	16.0
40°-50°	642.7	17.1
50°-60°	614.5	16.4
60°-70°	520.5	13.9
70°-80°	349.8	9.3
80°-90°	98.7	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°	927.9	24.7
0°-40°	1530.8	40.7
0°-60°	2787.9	74.2
0°-90°	3757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1182	1180	1174	1180	1180	112
15°	1140	1140	1139	1148	1146	322
25°	1058	1062	1070	1079	1081	488
35°	939	947	962	980	984	588
45°	788	801	829	865	880	608
55°	609	632	688	742	768	543
65°	402	444	535	606	634	400
75°	190	259	362	423	436	204
85°	37	76	93	101	104	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1181.5	1181.5	1181.5	1181.5	1181.5
2.5°	1183.4	1183.4	1177.7	1181.5	1181.5
5°	1181.5	1179.7	1174.1	1179.7	1179.7
7.5°	1175.9	1174.1	1170.3	1175.9	1174.1
10°	1164.8	1164.8	1161.0	1166.6	1166.6
12.5°	1155.3	1153.5	1151.7	1159.2	1157.3
15°	1140.4	1140.4	1138.6	1147.9	1146.1
17.5°	1121.9	1123.7	1125.7	1133.1	1135.0
20°	1101.3	1105.1	1106.9	1118.2	1118.2
22.5°	1082.7	1084.5	1088.4	1099.5	1099.5
25°	1058.5	1062.2	1069.6	1078.9	1080.9
27.5°	1034.1	1036.1	1045.4	1058.5	1060.3
30°	1002.5	1008.1	1019.4	1034.1	1036.1
32.5°	974.6	980.1	993.2	1008.1	1011.9
35°	939.2	946.6	961.5	980.1	983.9
37.5°	907.5	912.9	931.7	952.3	957.7
40°	868.5	879.5	898.2	922.4	931.7
42.5°	829.2	840.5	862.9	894.4	905.5
45°	788.3	801.4	829.2	864.7	879.5
47.5°	747.4	762.3	793.9	834.9	851.6
50°	700.6	719.3	758.5	805.0	823.8
52.5°	656.0	678.4	721.2	773.4	797.6
55°	609.2	631.6	687.7	741.7	767.7
57.5°	557.2	586.9	648.5	710.1	737.9
60°	508.8	536.6	611.2	678.4	706.2
62.5°	456.6	493.9	573.9	644.7	672.7
65°	402.5	443.6	534.8	605.6	633.6
67.5°	354.1	398.9	495.7	566.5	594.3
70°	296.2	352.1	452.9	523.5	551.6
72.5°	242.2	303.7	408.2	477.1	503.1
75°	190.0	258.9	361.6	423.1	436.2
77.5°	141.8	214.2	313.0	339.2	329.9
80°	100.6	171.6	244.0	230.9	236.6
82.5°	65.3	130.5	151.0	171.6	176.9
85°	37.3	76.4	93.2	100.6	104.5
87.5°	16.7	28.0	37.3	37.3	35.5
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)