

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: P843084

Luminaire Tested: **24CZ2-45-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45-UNV-B50
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

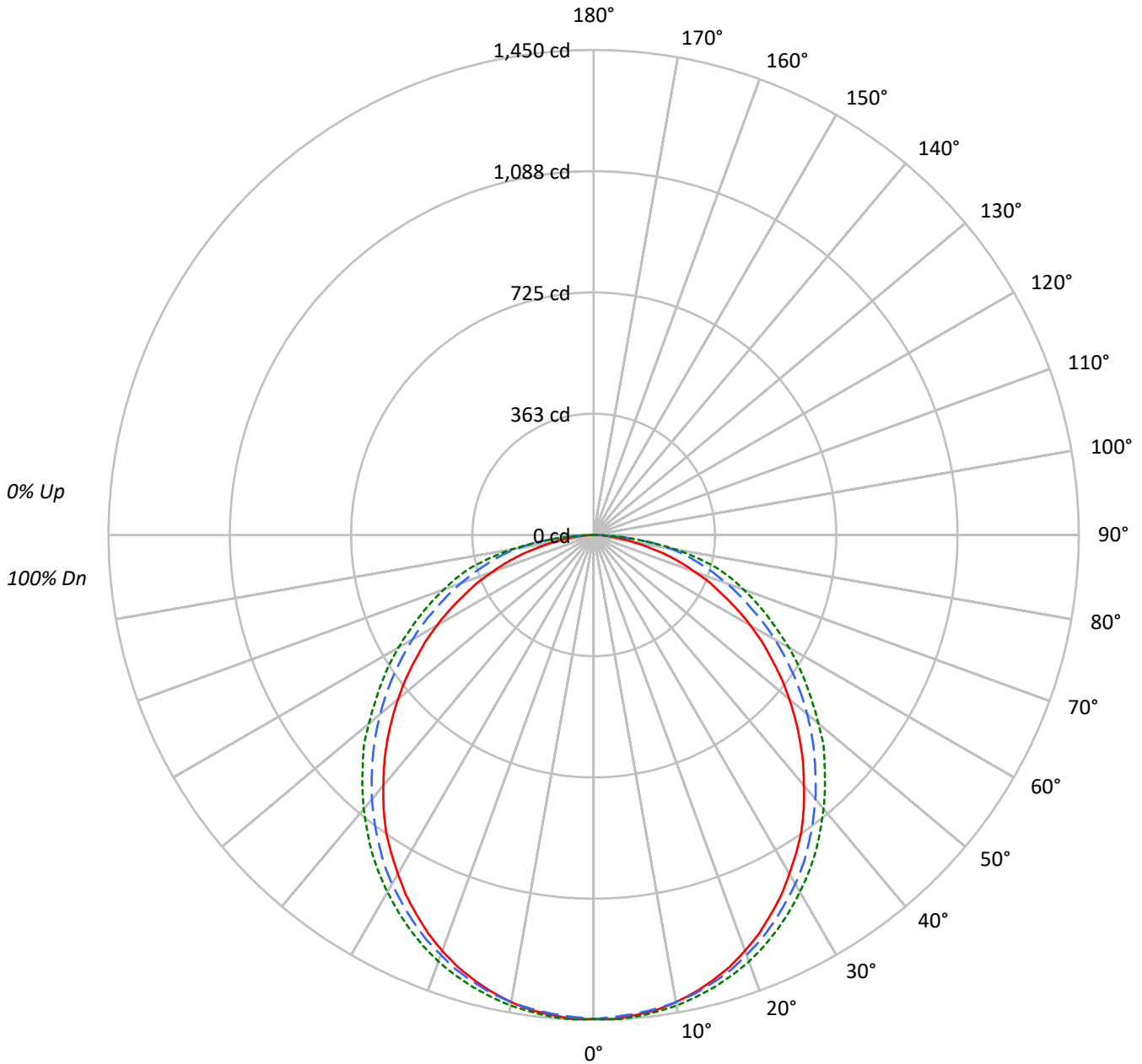
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4120.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
Input Voltage (V): NR
Input Current (A_{in}): 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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2043	2043	2043
5°	2041	2036	2049
10°	2033	2033	2048
15°	2014	2023	2044
20°	1987	2007	2038
25°	1950	1987	2026
30°	1907	1964	2009
35°	1865	1932	1993
40°	1801	1900	1970
45°	1742	1862	1949
50°	1675	1828	1925
55°	1600	1794	1906
60°	1526	1766	1902
65°	1429	1735	1914
70°	1323	1744	1965
75°	1185	1777	2077
80°	957	1882	2031
85°	721	1652	1611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	3.3
10°-20°	391.5	9.5
20°-30°	588.5	14.3
30°-40°	701.1	17.0
40°-50°	717.5	17.4
50°-60°	646.0	15.7
60°-70°	507.3	12.3
70°-80°	329.2	8.0
80°-90°	101.8	2.5
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°	1117.1	27.1
0°-40°	1818.2	44.1
0°-60°	3181.6	77.2
0°-90°	4120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1441	1444	1437	1445	1446	137
15°	1378	1382	1384	1396	1399	389
25°	1252	1263	1276	1297	1301	577
35°	1082	1095	1122	1149	1157	675
45°	873	894	933	968	976	673
55°	650	679	729	767	775	583
65°	428	461	520	563	573	426
75°	217	259	326	370	381	230
85°	44	82	102	100	100	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1447.5	1447.5	1447.5	1447.5	1447.5
2.5°	1448.7	1448.7	1442.1	1448.7	1450.0
5°	1440.8	1443.5	1436.9	1444.8	1446.0
7.5°	1432.9	1432.9	1429.0	1436.9	1438.3
10°	1418.6	1419.9	1418.6	1427.7	1429.0
12.5°	1400.3	1402.8	1404.2	1413.4	1414.7
15°	1378.1	1382.0	1384.5	1396.4	1399.0
17.5°	1353.2	1357.1	1363.6	1376.7	1379.3
20°	1323.0	1328.2	1336.1	1353.2	1357.1
22.5°	1290.4	1295.6	1308.7	1324.3	1330.9
25°	1252.4	1262.8	1275.9	1296.9	1300.8
27.5°	1214.4	1223.6	1240.6	1262.8	1268.2
30°	1169.9	1184.3	1205.3	1227.5	1232.7
32.5°	1126.7	1141.1	1166.0	1189.7	1196.1
35°	1082.3	1095.4	1121.5	1149.0	1156.9
37.5°	1031.2	1048.2	1077.1	1104.5	1112.4
40°	977.6	998.6	1031.2	1060.0	1069.2
42.5°	926.5	948.7	981.5	1012.9	1023.3
45°	872.9	893.9	933.1	968.4	976.3
47.5°	817.9	841.5	883.3	918.6	931.7
50°	763.0	787.9	832.4	868.9	876.8
52.5°	708.0	734.1	781.3	820.5	824.5
55°	650.4	679.3	728.9	766.9	774.8
57.5°	598.1	623.0	676.6	715.8	725.0
60°	540.5	567.9	625.5	662.2	673.9
62.5°	485.5	514.3	574.6	611.1	621.6
65°	427.9	460.7	519.5	562.7	573.1
67.5°	378.3	409.6	472.4	514.3	524.7
70°	320.6	356.0	422.7	465.9	476.3
72.5°	270.9	307.5	374.3	416.1	431.9
75°	217.3	259.1	325.9	370.4	380.8
77.5°	164.9	213.3	281.3	315.3	315.3
80°	117.8	168.9	231.6	247.4	249.9
82.5°	77.3	126.9	171.4	170.1	170.1
85°	44.5	82.5	102.0	99.5	99.5
87.5°	17.0	34.1	36.6	36.6	35.3
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)