

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: P880873

Luminaire Tested: **24CZ2-45VHE-B2750-W2D-3000K**

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: P880873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45VHE-B2750-W2D-3000K
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

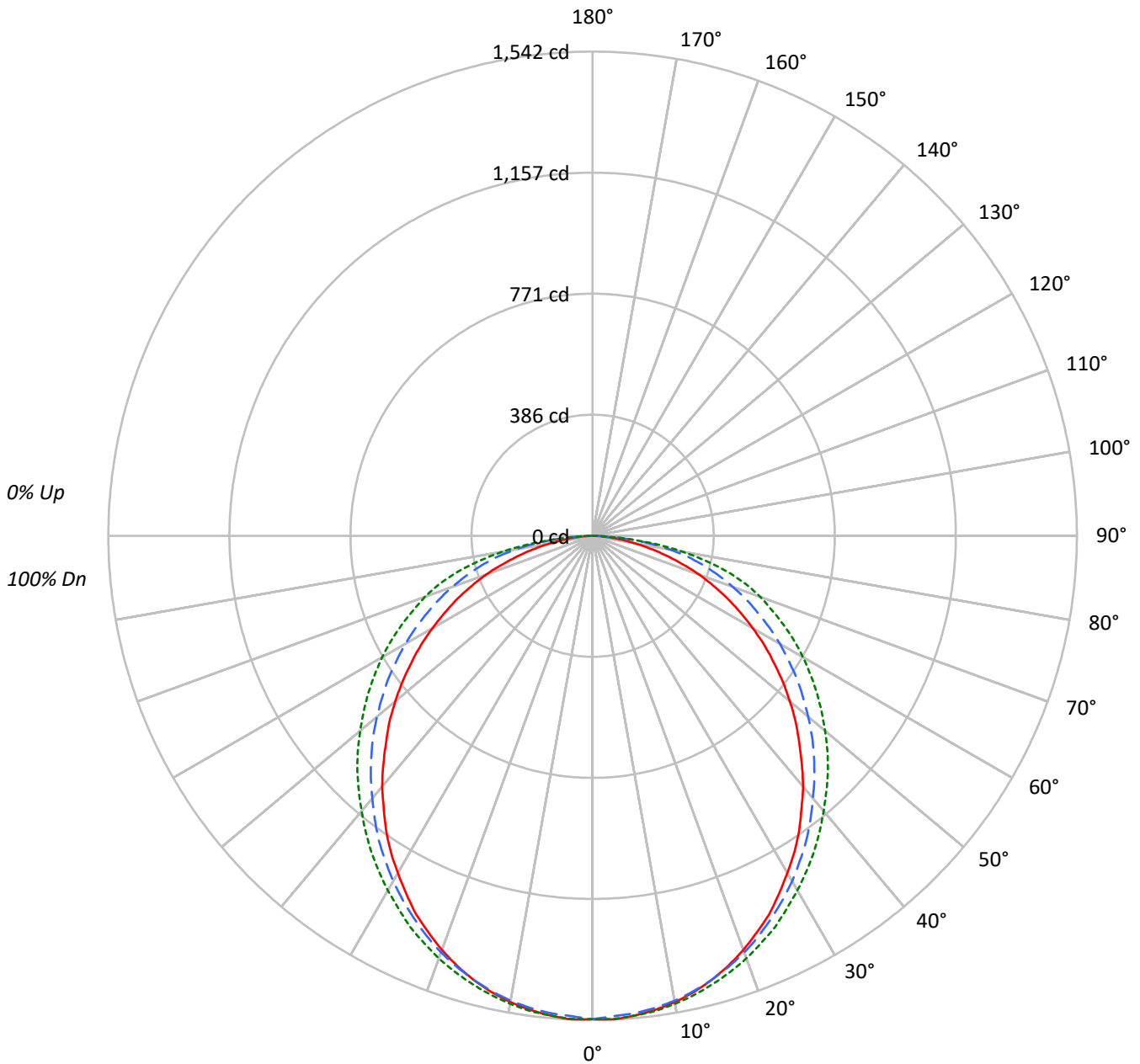
Lumens per Lamp: N/A
Luminaire Lumens: 4455.0 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 34
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: P880873

CATALOG NUMBER: 24CZ2-45VHE-B2750-W2D-3000K

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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68																			
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57																			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48																			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42																			
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37																			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2173	2173	2173
5°	2174	2163	2174
10°	2162	2155	2169
15°	2140	2139	2160
20°	2108	2121	2151
25°	2071	2095	2141
30°	2021	2070	2125
35°	1975	2044	2117
40°	1921	2010	2108
45°	1856	1990	2114
50°	1800	1967	2121
55°	1734	1953	2145
60°	1662	1944	2184
65°	1584	1938	2240
70°	1491	1957	2343
75°	1311	1997	2437
80°	1095	2012	2351
85°	782	1725	1747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	3.3
10°-20°	414.5	9.3
20°-30°	621.9	14.0
30°-40°	742.5	16.7
40°-50°	769.0	17.3
50°-60°	708.0	15.9
60°-70°	571.1	12.8
70°-80°	373.1	8.4
80°-90°	109.4	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°	1181.9	26.5
0°-40°	1924.4	43.2
0°-60°	3401.4	76.3
0°-90°	4455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4455.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1534	1533	1526	1535	1534	146
15°	1465	1465	1464	1478	1478	413
25°	1330	1333	1345	1370	1375	612
35°	1146	1157	1186	1218	1229	716
45°	930	953	997	1042	1059	719
55°	705	735	794	852	872	631
65°	474	507	580	646	671	469
75°	240	286	366	430	447	257
85°	48	84	106	113	108	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1539.4	1539.4	1539.4	1539.4	1539.4
2.5°	1541.6	1539.4	1531.5	1540.9	1540.2
5°	1534.4	1533.0	1526.5	1535.1	1534.4
7.5°	1522.9	1522.2	1517.2	1526.5	1526.5
10°	1508.5	1507.1	1503.5	1514.3	1513.6
12.5°	1488.4	1487.7	1485.6	1498.5	1497.8
15°	1464.6	1464.6	1463.9	1478.4	1478.4
17.5°	1435.8	1436.6	1439.4	1456.0	1456.7
20°	1403.5	1406.4	1412.1	1430.8	1432.2
22.5°	1366.7	1372.5	1380.4	1401.3	1403.5
25°	1330.1	1332.9	1345.1	1369.6	1374.6
27.5°	1285.4	1292.7	1308.5	1333.7	1338.7
30°	1240.1	1250.2	1270.3	1296.3	1304.2
32.5°	1195.4	1204.2	1227.9	1257.3	1266.7
35°	1146.5	1156.6	1186.1	1218.5	1228.6
37.5°	1092.5	1108.3	1139.4	1176.7	1187.5
40°	1042.9	1057.3	1091.1	1132.9	1144.4
42.5°	986.0	1004.0	1045.1	1087.5	1101.8
45°	929.8	953.0	996.8	1041.5	1059.4
47.5°	877.4	896.0	947.9	998.2	1014.0
50°	819.7	841.3	896.0	949.4	965.9
52.5°	763.0	788.8	844.2	900.4	918.3
55°	704.6	734.8	793.9	852.2	871.6
57.5°	648.4	678.8	739.8	801.8	821.9
60°	588.8	621.1	688.8	748.5	773.7
62.5°	531.2	563.5	634.8	699.6	723.3
65°	474.3	506.7	580.2	646.3	670.8
67.5°	415.3	450.5	529.0	593.1	616.8
70°	361.3	395.1	474.3	542.7	567.8
72.5°	299.4	339.7	420.4	487.9	511.8
75°	240.4	285.7	366.3	429.7	446.9
77.5°	185.7	231.1	311.6	359.1	369.9
80°	134.7	180.6	247.6	280.7	289.3
82.5°	87.1	134.7	179.2	201.5	204.4
85°	48.3	83.5	106.5	113.0	107.9
87.5°	17.2	31.6	30.9	25.1	20.1
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)