

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: P732252

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732252
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-S-B2750-W2D-3000K
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

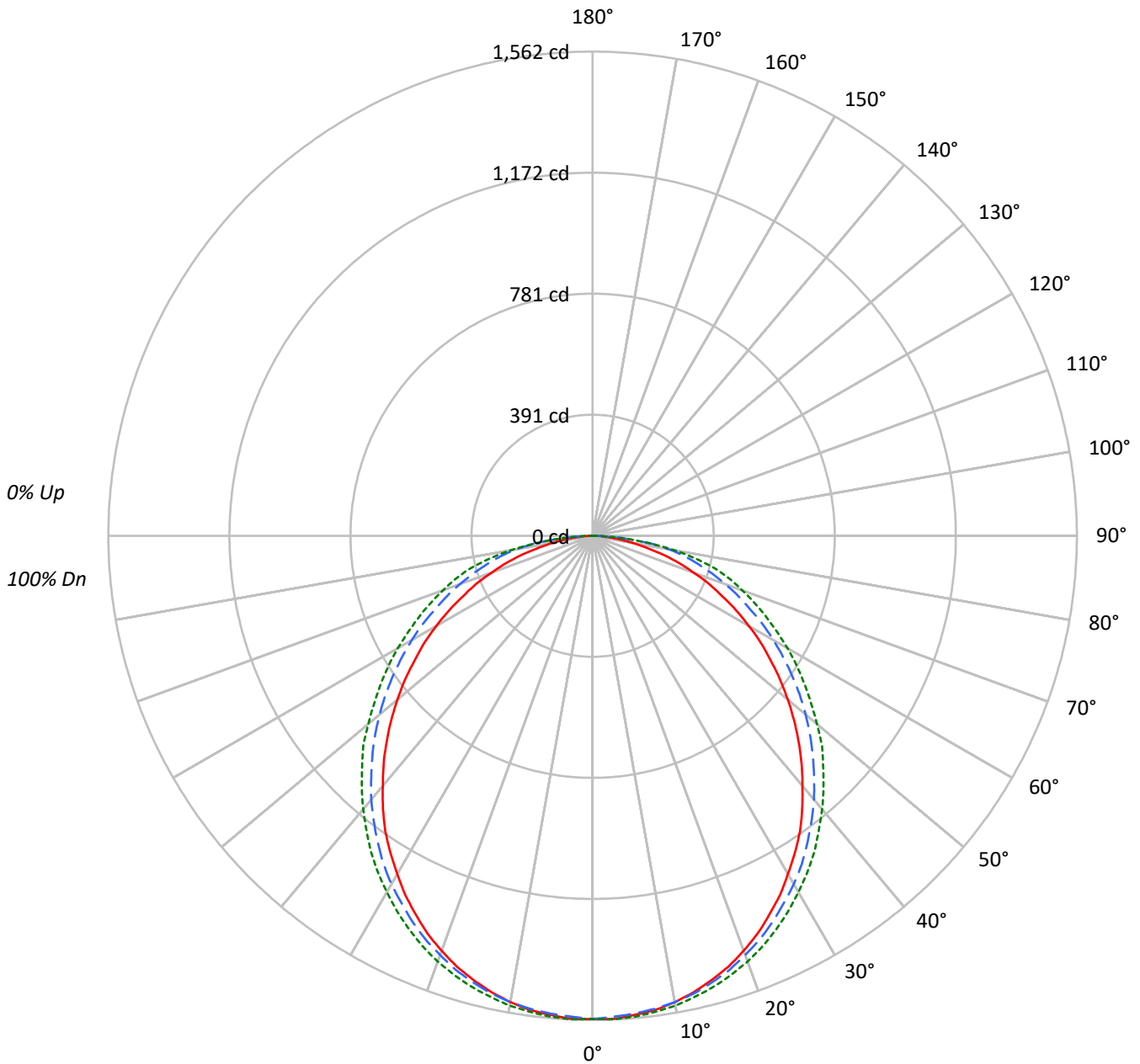
Lumens per Lamp: N/A
Luminaire Lumens: 4437.0 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732252

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

Luminous Intensity Polar Plot





TEST NUMBER: P732252

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

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	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°	2200	2200	2200
5°	2198	2192	2206
10°	2189	2189	2206
15°	2168	2179	2201
20°	2140	2161	2195
25°	2100	2140	2182
30°	2053	2115	2163
35°	2008	2081	2147
40°	1940	2046	2121
45°	1876	2006	2099
50°	1804	1968	2073
55°	1724	1932	2053
60°	1643	1901	2049
65°	1539	1868	2061
70°	1424	1879	2117
75°	1276	1914	2236
80°	1031	2027	2187
85°	776	1780	1734



TEST NUMBER: P732252

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	3.3
10°-20°	421.7	9.5
20°-30°	633.8	14.3
30°-40°	755.0	17.0
40°-50°	772.7	17.4
50°-60°	695.7	15.7
60°-70°	546.3	12.3
70°-80°	354.6	8.0
80°-90°	109.6	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°	1203.1	27.1
0°-40°	1958.0	44.1
0°-60°	3426.4	77.2
0°-90°	4437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1559	1559	1559	1559	1559	
5°	1552	1555	1547	1556	1557	147
15°	1484	1488	1491	1504	1507	418
25°	1349	1360	1374	1397	1401	621
35°	1166	1180	1208	1237	1246	727
45°	940	963	1005	1043	1051	725
55°	700	732	785	826	834	628
65°	461	496	560	606	617	459
75°	234	279	351	399	410	248
85°	48	89	110	107	107	58
90°	0	0	0	0	0	



TEST NUMBER: P732252

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1558.8	1558.8	1558.8	1558.8	1558.8
2.5°	1560.2	1560.2	1553.0	1560.2	1561.5
5°	1551.7	1554.6	1547.4	1555.9	1557.3
7.5°	1543.2	1543.2	1539.0	1547.4	1549.0
10°	1527.7	1529.1	1527.7	1537.6	1539.0
12.5°	1508.0	1510.8	1512.3	1522.1	1523.5
15°	1484.1	1488.4	1491.1	1503.8	1506.7
17.5°	1457.3	1461.5	1468.5	1482.6	1485.5
20°	1424.8	1430.4	1438.9	1457.3	1461.5
22.5°	1389.7	1395.3	1409.4	1426.2	1433.3
25°	1348.8	1360.0	1374.1	1396.7	1400.9
27.5°	1307.8	1317.7	1336.0	1360.0	1365.8
30°	1260.0	1275.4	1298.0	1321.9	1327.5
32.5°	1213.4	1228.9	1255.7	1281.2	1288.1
35°	1165.5	1179.6	1207.8	1237.4	1245.9
37.5°	1110.5	1128.9	1159.9	1189.5	1198.0
40°	1052.8	1075.4	1110.5	1141.6	1151.5
42.5°	997.8	1021.7	1057.0	1090.8	1102.0
45°	940.0	962.6	1004.9	1042.9	1051.4
47.5°	880.8	906.3	951.3	989.3	1003.4
50°	821.7	848.5	896.4	935.8	944.3
52.5°	762.4	790.6	841.4	883.7	887.9
55°	700.5	731.5	785.0	825.9	834.4
57.5°	644.1	670.9	728.6	770.9	780.8
60°	582.1	611.6	673.6	713.2	725.8
62.5°	522.8	553.9	618.8	658.2	669.4
65°	460.9	496.2	559.5	606.0	617.2
67.5°	407.4	441.2	508.7	553.9	565.1
70°	345.2	383.4	455.3	501.8	513.0
72.5°	291.7	331.1	403.1	448.1	465.1
75°	234.0	279.0	351.0	398.9	410.1
77.5°	177.6	229.7	302.9	339.6	339.6
80°	126.8	181.9	249.4	266.4	269.1
82.5°	83.2	136.7	184.6	183.2	183.2
85°	47.9	88.8	109.9	107.1	107.1
87.5°	18.3	36.7	39.4	39.4	38.0
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)