

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: P732277

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732277
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: 24CZ2-45HE-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

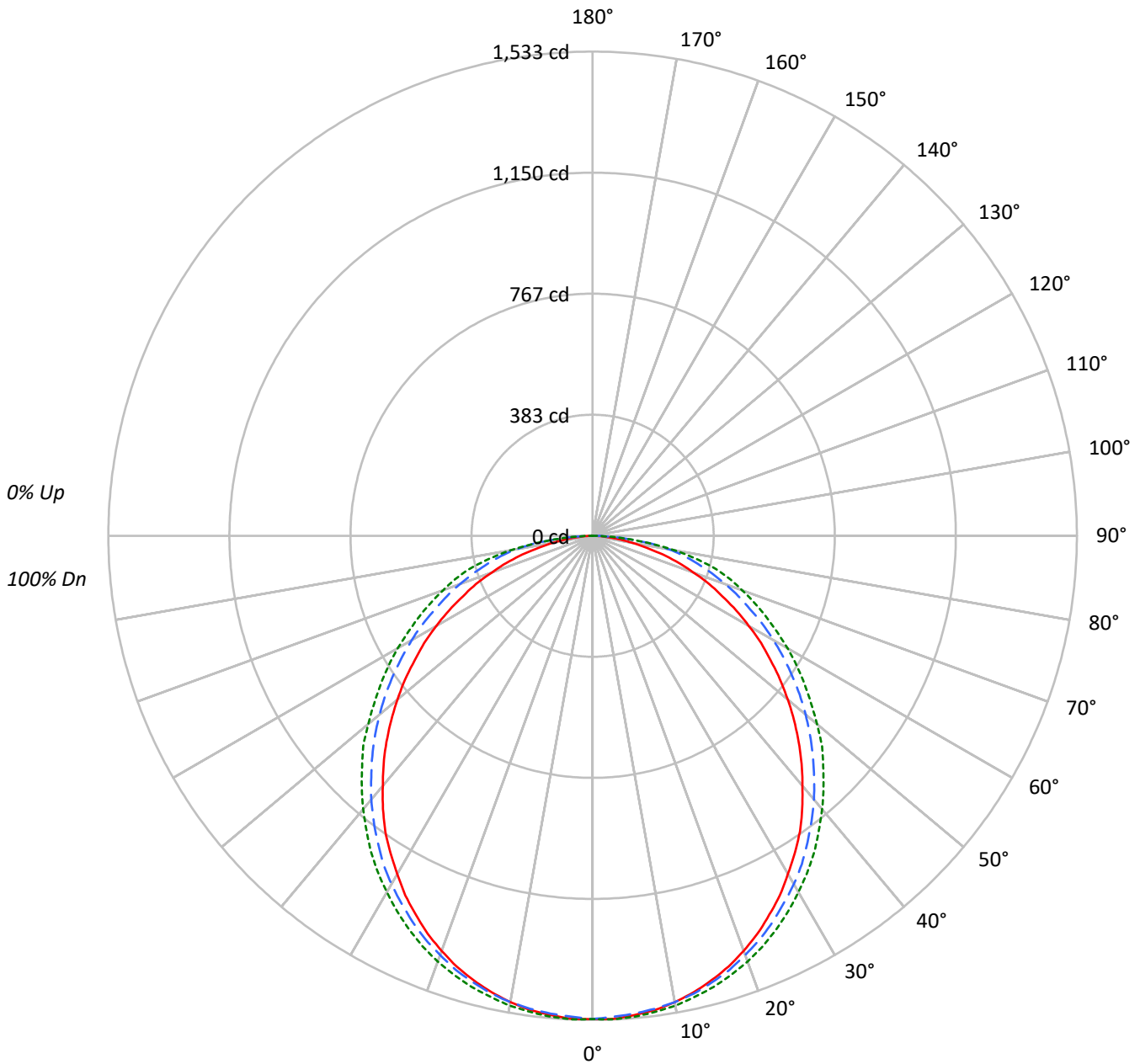
Lumens per Lamp: N/A
Luminaire Lumens: 4354.9 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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: P732277

CATALOG NUMBER: 24CZ2-45HE-S-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	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°	2159	2159	2159
5°	2158	2152	2165
10°	2149	2149	2165
15°	2128	2138	2161
20°	2100	2121	2154
25°	2061	2100	2141
30°	2015	2076	2123
35°	1971	2043	2107
40°	1904	2008	2082
45°	1842	1969	2060
50°	1771	1932	2035
55°	1692	1896	2015
60°	1613	1866	2011
65°	1510	1834	2023
70°	1398	1844	2078
75°	1253	1879	2195
80°	1012	1990	2147
85°	761	1746	1704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	3.3
10°-20°	413.9	9.5
20°-30°	622.1	14.3
30°-40°	741.0	17.0
40°-50°	758.4	17.4
50°-60°	682.8	15.7
60°-70°	536.2	12.3
70°-80°	348.0	8.0
80°-90°	107.6	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°	1180.8	27.1
0°-40°	1921.8	44.1
0°-60°	3363.1	77.2
0°-90°	4354.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4354.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1523	1526	1519	1527	1528	145
15°	1457	1461	1464	1476	1479	411
25°	1324	1335	1349	1371	1375	610
35°	1144	1158	1186	1214	1223	714
45°	923	945	986	1024	1032	711
55°	688	718	770	811	819	616
65°	452	487	549	595	606	450
75°	230	274	344	392	402	243
85°	47	87	108	105	105	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1531.3	1531.3	1524.3	1531.3	1532.7
5°	1523.0	1525.8	1518.8	1527.2	1528.5
7.5°	1514.7	1514.7	1510.5	1518.8	1520.3
10°	1499.5	1500.8	1499.5	1509.2	1510.5
12.5°	1480.2	1482.8	1484.3	1494.0	1495.3
15°	1456.7	1460.8	1463.5	1476.0	1478.8
17.5°	1430.3	1434.5	1441.3	1455.2	1458.0
20°	1398.5	1404.0	1412.3	1430.3	1434.5
22.5°	1364.0	1369.5	1383.3	1399.8	1406.8
25°	1323.8	1334.8	1348.7	1370.8	1375.0
27.5°	1283.7	1293.3	1311.3	1334.8	1340.5
30°	1236.7	1251.8	1274.0	1297.5	1303.0
32.5°	1191.0	1206.2	1232.5	1257.5	1264.3
35°	1144.0	1157.8	1185.5	1214.5	1222.8
37.5°	1090.0	1108.0	1138.5	1167.5	1175.8
40°	1033.3	1055.5	1090.0	1120.5	1130.2
42.5°	979.3	1002.8	1037.5	1070.7	1081.7
45°	922.7	944.8	986.3	1023.7	1032.0
47.5°	864.5	889.5	933.7	971.0	984.8
50°	806.5	832.8	879.8	918.5	926.8
52.5°	748.3	776.0	825.8	867.3	871.5
55°	687.5	718.0	770.5	810.7	819.0
57.5°	632.2	658.5	715.2	756.7	766.3
60°	571.3	600.3	661.2	700.0	712.3
62.5°	513.2	543.7	607.3	646.0	657.0
65°	452.3	487.0	549.2	594.8	605.8
67.5°	399.8	433.0	499.3	543.7	554.7
70°	338.8	376.3	446.8	492.5	503.5
72.5°	286.3	325.0	395.7	439.8	456.5
75°	229.7	273.8	344.5	391.5	402.5
77.5°	174.3	225.5	297.3	333.3	333.3
80°	124.5	178.5	244.8	261.5	264.2
82.5°	81.7	134.2	181.2	179.8	179.8
85°	47.0	87.2	107.8	105.2	105.2
87.5°	18.0	36.0	38.7	38.7	37.3
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)