

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: P880823

Luminaire Tested: **24CZ2-35VHE-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: P880823
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: 24CZ2-35VHE-B2750-W2D-3000K
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

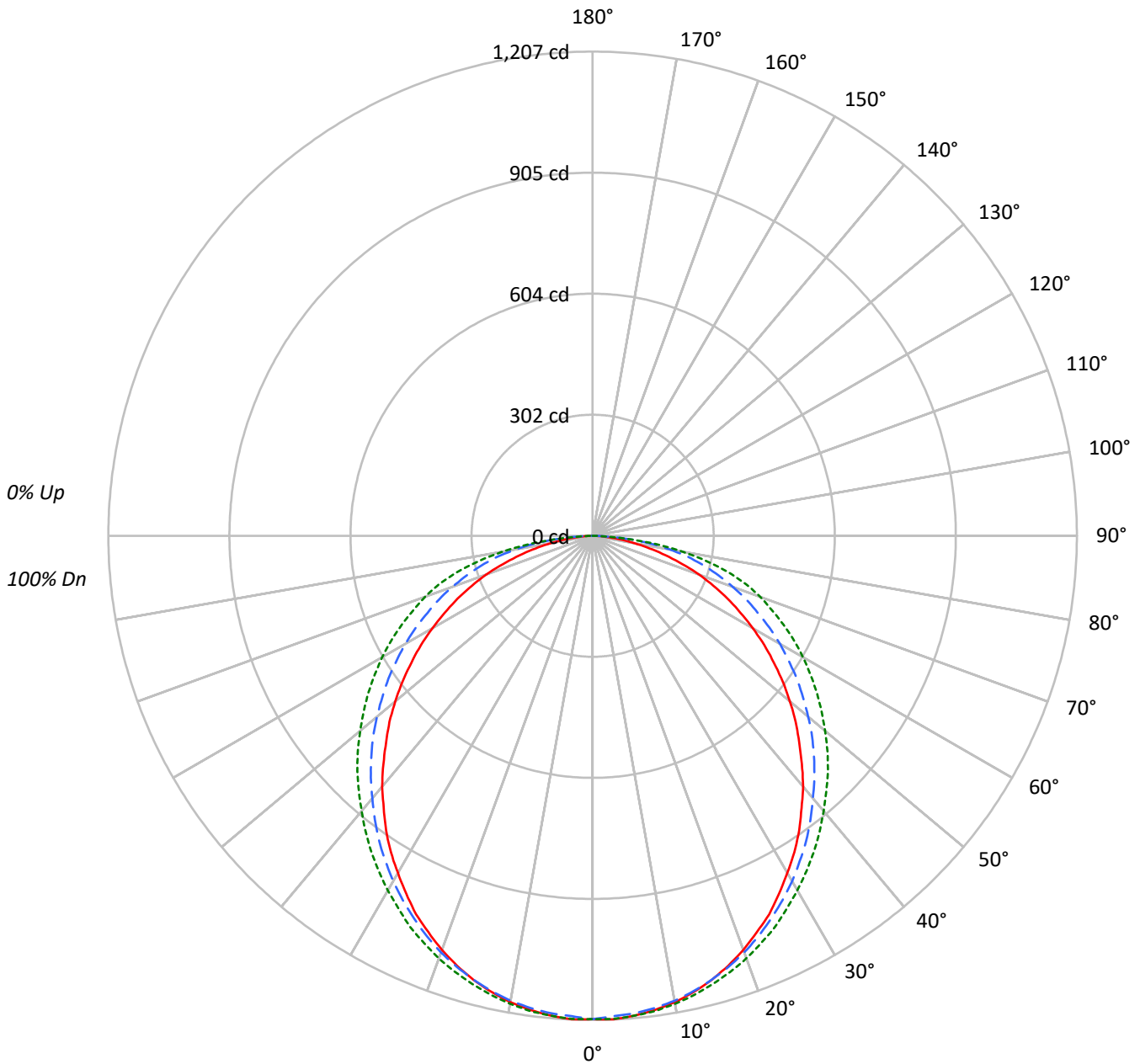
Lumens per Lamp: N/A
Luminaire Lumens: 3487.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27
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: P880823

CATALOG NUMBER: 24CZ2-35VHE-B2750-W2D-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P880823

CATALOG NUMBER: 24CZ2-35VHE-B2750-W2D-3000K

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	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°	1701	1701	1701
5°	1701	1693	1701
10°	1692	1686	1698
15°	1675	1674	1691
20°	1650	1660	1684
25°	1621	1640	1675
30°	1582	1620	1664
35°	1546	1599	1657
40°	1504	1573	1650
45°	1453	1557	1655
50°	1409	1540	1660
55°	1357	1529	1679
60°	1301	1522	1709
65°	1240	1516	1754
70°	1167	1532	1834
75°	1026	1563	1907
80°	857	1575	1840
85°	612	1351	1368



TEST NUMBER: P880823

CATALOG NUMBER: 24CZ2-35VHE-B2750-W2D-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	3.3
10°-20°	324.5	9.3
20°-30°	486.7	14.0
30°-40°	581.1	16.7
40°-50°	601.9	17.3
50°-60°	554.1	15.9
60°-70°	447.0	12.8
70°-80°	292.1	8.4
80°-90°	85.6	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°	925.1	26.5
0°-40°	1506.2	43.2
0°-60°	2662.3	76.3
0°-90°	3487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1205	1205	1205	1205	1205	
5°	1201	1200	1195	1202	1201	114
15°	1146	1146	1146	1157	1157	323
25°	1041	1043	1053	1072	1076	479
35°	897	905	928	954	962	561
45°	728	746	780	815	829	563
55°	552	575	621	667	682	494
65°	371	397	454	506	525	367
75°	188	224	287	336	350	201
85°	38	65	83	88	84	47
90°	0	0	0	0	0	



TEST NUMBER: P880823

CATALOG NUMBER: 24CZ2-35VHE-B2750-W2D-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1205.0	1205.0	1205.0	1205.0	1205.0
2.5°	1206.6	1205.0	1198.8	1206.1	1205.5
5°	1201.0	1199.9	1194.8	1201.6	1201.0
7.5°	1192.0	1191.5	1187.5	1194.8	1194.8
10°	1180.8	1179.6	1176.8	1185.3	1184.7
12.5°	1165.0	1164.5	1162.8	1172.9	1172.3
15°	1146.3	1146.3	1145.8	1157.1	1157.1
17.5°	1123.8	1124.4	1126.7	1139.6	1140.2
20°	1098.5	1100.8	1105.3	1119.9	1121.0
22.5°	1069.7	1074.2	1080.4	1096.9	1098.5
25°	1041.1	1043.3	1052.9	1072.0	1075.9
27.5°	1006.1	1011.8	1024.2	1043.9	1047.8
30°	970.6	978.5	994.3	1014.6	1020.8
32.5°	935.7	942.5	961.1	984.1	991.5
35°	897.4	905.3	928.3	953.8	961.6
37.5°	855.1	867.5	891.8	921.0	929.5
40°	816.3	827.6	854.0	886.7	895.7
42.5°	771.8	785.8	818.0	851.2	862.4
45°	727.8	745.9	780.2	815.2	829.2
47.5°	686.7	701.4	742.0	781.3	793.7
50°	641.6	658.5	701.4	743.1	756.0
52.5°	597.2	617.4	660.7	704.7	718.8
55°	551.5	575.1	621.4	667.0	682.2
57.5°	507.5	531.3	579.1	627.6	643.3
60°	460.9	486.2	539.1	585.8	605.6
62.5°	415.7	441.1	496.9	547.6	566.1
65°	371.2	396.6	454.1	505.8	525.1
67.5°	325.1	352.6	414.1	464.2	482.8
70°	282.8	309.2	371.2	424.7	444.4
72.5°	234.3	265.9	329.0	381.9	400.6
75°	188.2	223.6	286.7	336.3	349.8
77.5°	145.3	180.9	243.9	281.1	289.5
80°	105.4	141.4	193.8	219.7	226.4
82.5°	68.2	105.4	140.3	157.7	160.0
85°	37.8	65.4	83.4	88.4	84.5
87.5°	13.5	24.7	24.2	19.7	15.7
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)