

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: P731903

Luminaire Tested: **14CZ2-39-S-B2750-W2D-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-S-B2750-W2D-3500K
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

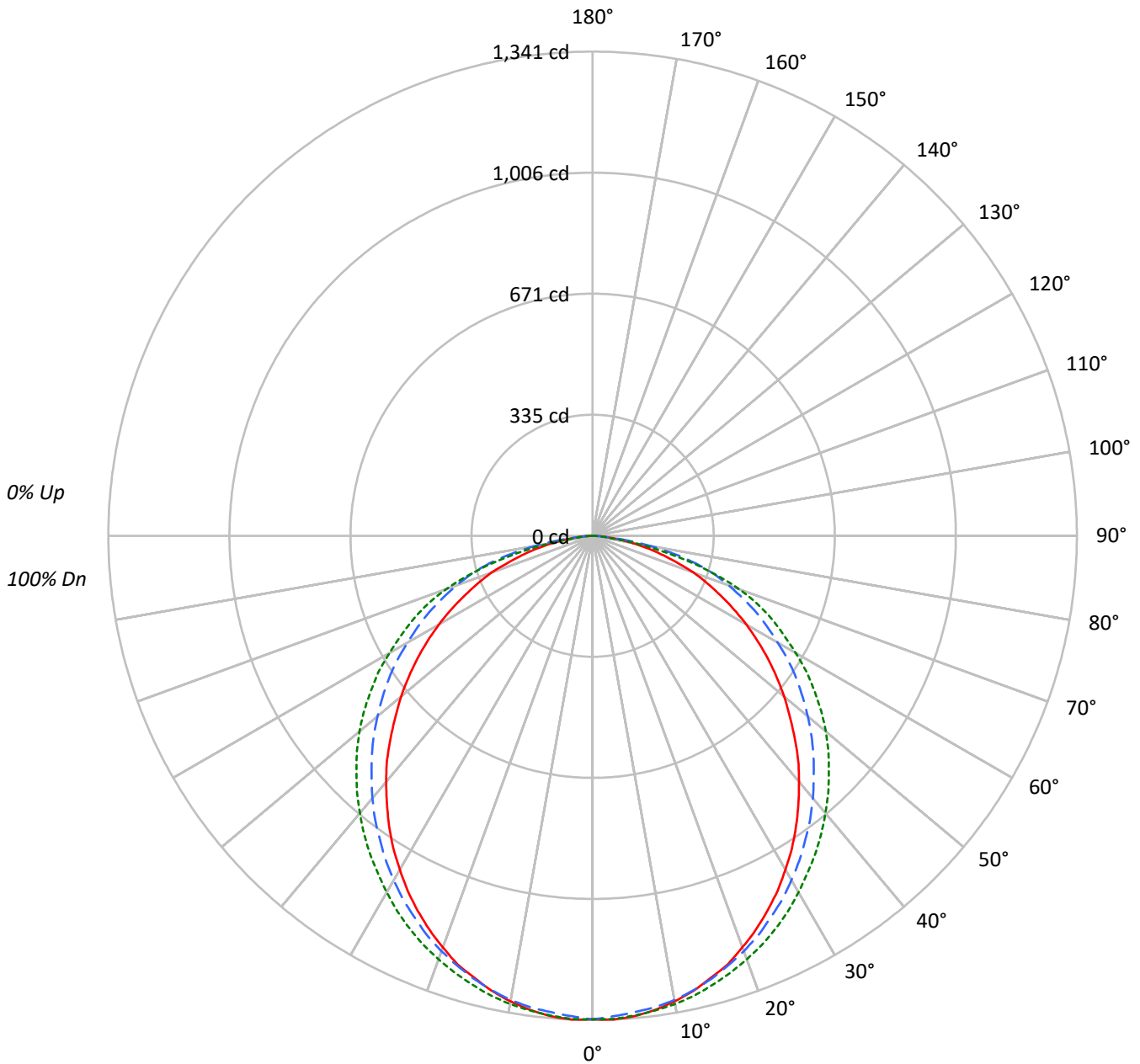
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3752.0 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 31
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: P731903
CATALOG NUMBER: 14CZ2-39-S-B2750-W2D-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P731903

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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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3781	3781	3781
5°	3785	3753	3779
10°	3754	3743	3775
15°	3702	3713	3762
20°	3643	3677	3749
25°	3569	3633	3737
30°	3480	3589	3717
35°	3385	3539	3705
40°	3276	3496	3695
45°	3156	3453	3691
50°	3039	3414	3701
55°	2911	3388	3689
60°	2773	3339	3665
65°	2609	3329	3666
70°	2457	3301	3561
75°	2131	3227	3043
80°	1723	2601	2027
85°	1143	900	606



TEST NUMBER: P731903

CATALOG NUMBER: 14CZ2-39-S-B2750-W2D-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	3.4
10°-20°	359.9	9.6
20°-30°	539.9	14.4
30°-40°	644.0	17.2
40°-50°	665.8	17.7
50°-60°	607.9	16.2
60°-70°	478.4	12.7
70°-80°	278.5	7.4
80°-90°	51.3	1.4
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°	1026.3	27.4
0°-40°	1670.3	44.5
0°-60°	2943.9	78.5
0°-90°	3752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1339	1339	1339	1339	1339	
5°	1336	1332	1325	1336	1334	127
15°	1267	1269	1271	1287	1287	357
25°	1146	1152	1166	1194	1200	528
35°	982	995	1027	1066	1075	614
45°	790	817	865	913	925	611
55°	592	623	688	738	750	529
65°	391	432	498	538	549	388
75°	195	242	296	290	279	208
85°	35	50	28	22	19	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.4	1339.4	1339.4	1339.4	1339.4
2.5°	1341.2	1337.6	1331.9	1341.2	1339.4
5°	1335.8	1331.9	1324.6	1335.8	1333.7
7.5°	1324.6	1320.7	1317.1	1328.2	1326.4
10°	1309.6	1307.7	1305.9	1318.9	1317.1
12.5°	1291.1	1291.1	1289.3	1304.1	1304.1
15°	1266.9	1268.7	1270.6	1287.2	1287.2
17.5°	1244.6	1242.8	1248.2	1266.9	1268.7
20°	1212.9	1216.6	1224.1	1246.4	1248.2
22.5°	1181.2	1185.1	1198.1	1220.4	1225.9
25°	1145.9	1151.6	1166.4	1194.2	1199.9
27.5°	1108.7	1116.3	1136.5	1166.4	1171.9
30°	1067.7	1078.9	1101.2	1134.7	1140.4
32.5°	1026.9	1038.1	1065.9	1099.4	1106.9
35°	982.2	995.2	1026.9	1065.9	1075.2
37.5°	935.7	952.4	989.7	1028.7	1039.9
40°	889.2	907.9	948.7	989.7	1002.7
42.5°	842.7	861.4	905.9	952.4	965.6
45°	790.5	816.7	865.1	913.4	924.6
47.5°	740.4	768.4	822.2	870.5	885.6
50°	692.0	719.9	777.5	827.9	842.7
52.5°	641.9	671.5	732.8	785.0	798.0
55°	591.5	623.2	688.4	738.5	749.7
57.5°	541.4	574.9	641.9	690.2	703.2
60°	491.2	526.6	591.5	639.8	649.2
62.5°	440.8	478.0	545.0	587.9	597.2
65°	390.7	431.5	498.5	537.7	548.9
67.5°	342.4	383.2	448.4	485.5	494.9
70°	297.7	334.9	400.0	427.9	431.5
72.5°	241.9	288.4	351.5	366.5	357.2
75°	195.4	241.9	295.9	290.2	279.0
77.5°	148.8	195.4	230.7	212.0	197.2
80°	106.0	152.5	160.0	132.0	124.7
82.5°	68.8	106.0	89.4	68.8	55.8
85°	35.3	50.1	27.8	22.3	18.7
87.5°	11.2	7.5	3.6	3.6	1.8
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)