

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: P731886

Luminaire Tested: **14CZ2-39-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-B2750-W2D-2700K
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

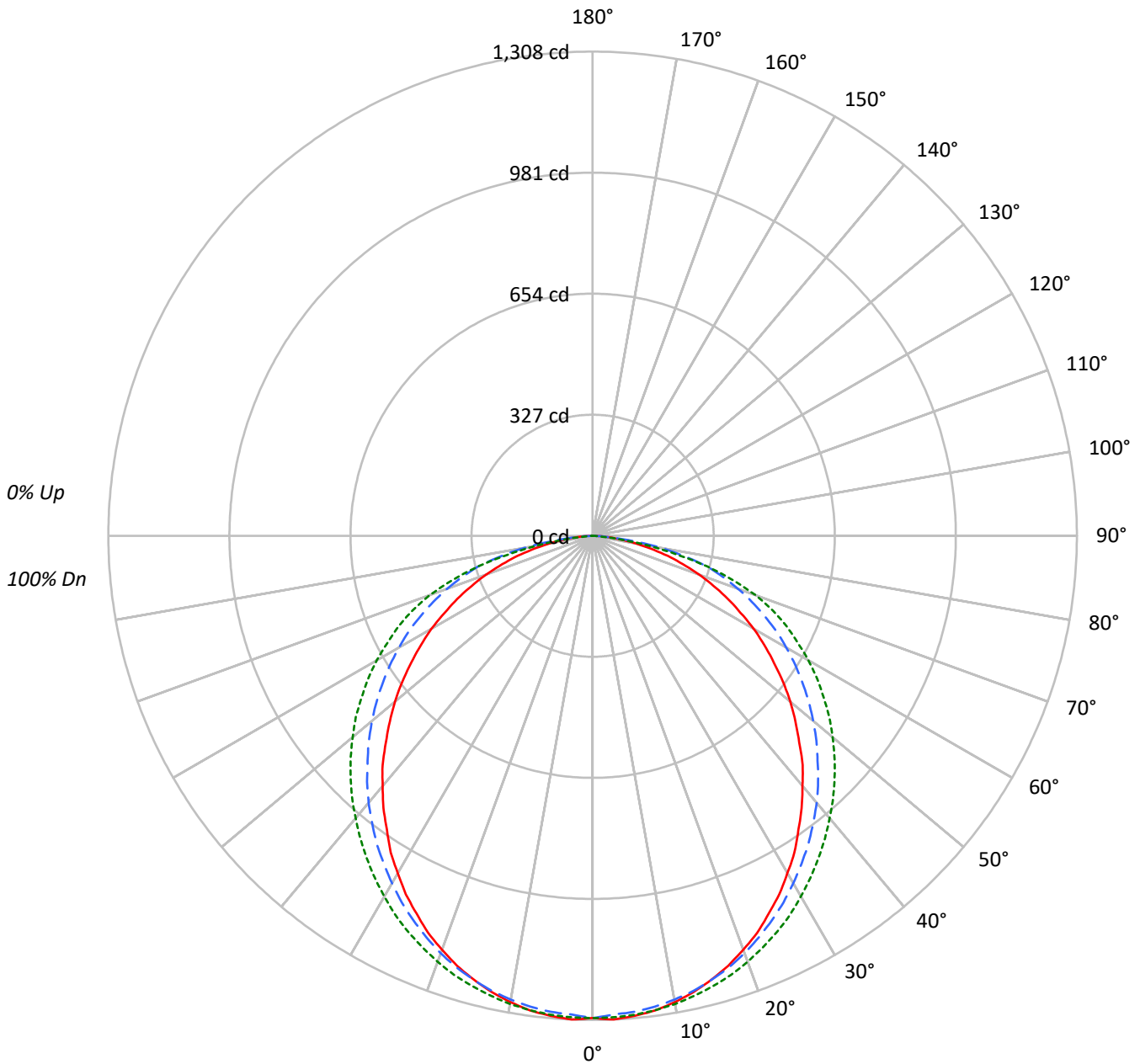
Lumens per Lamp: N/A
Luminaire Lumens: 3782.0 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 31
Input Voltage (V): NR
Input Current (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

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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	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	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3678	3678	3678
5°	3689	3658	3680
10°	3667	3647	3681
15°	3628	3630	3679
20°	3574	3605	3678
25°	3506	3569	3675
30°	3430	3532	3667
35°	3339	3502	3664
40°	3250	3468	3670
45°	3151	3430	3690
50°	3059	3414	3714
55°	2942	3403	3747
60°	2837	3409	3800
65°	2692	3419	3858
70°	2527	3445	3855
75°	2289	3477	3487
80°	1879	3001	2479
85°	1393	1422	570



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	3.3
10°-20°	352.2	9.3
20°-30°	530.5	14.0
30°-40°	636.7	16.8
40°-50°	663.6	17.5
50°-60°	614.3	16.2
60°-70°	496.3	13.1
70°-80°	302.6	8.0
80°-90°	62.5	1.7
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°	1006.0	26.6
0°-40°	1642.7	43.4
0°-60°	2920.6	77.2
0°-90°	3782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1303	1303	1303	1303	1303	
5°	1302	1299	1291	1300	1299	124
15°	1241	1242	1242	1259	1259	350
25°	1126	1132	1146	1175	1180	519
35°	969	984	1016	1053	1063	607
45°	789	813	859	907	924	610
55°	598	629	692	746	762	536
65°	403	443	512	563	578	399
75°	210	256	319	324	320	221
85°	43	64	44	24	18	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1302.9	1302.9	1302.9	1302.9	1302.9
2.5°	1308.0	1303.9	1294.6	1303.9	1302.0
5°	1302.0	1298.8	1291.1	1300.4	1298.8
7.5°	1293.6	1290.2	1283.4	1294.6	1292.7
10°	1279.3	1277.6	1272.5	1285.3	1284.4
12.5°	1262.5	1261.6	1259.1	1273.4	1272.5
15°	1241.4	1242.1	1242.1	1259.1	1259.1
17.5°	1217.7	1219.4	1222.8	1241.4	1244.0
20°	1189.9	1193.3	1200.1	1221.2	1224.5
22.5°	1161.3	1163.9	1173.8	1199.2	1202.6
25°	1125.8	1132.5	1146.0	1174.8	1179.9
27.5°	1092.1	1097.9	1116.5	1146.0	1154.6
30°	1052.4	1061.7	1083.8	1115.8	1125.1
32.5°	1014.6	1024.6	1049.9	1087.0	1095.4
35°	969.1	984.2	1016.2	1053.3	1063.3
37.5°	927.7	941.9	978.4	1018.8	1030.6
40°	882.0	899.9	941.2	984.2	996.0
42.5°	840.0	856.7	901.5	945.4	961.4
45°	789.4	813.1	859.3	907.3	924.3
47.5°	742.9	766.6	819.8	871.1	886.4
50°	696.5	721.8	777.5	830.7	845.8
52.5°	648.4	675.6	735.3	788.4	806.3
55°	597.8	629.2	691.6	745.5	761.5
57.5°	549.8	581.8	648.4	703.2	719.3
60°	502.6	535.6	603.9	656.1	673.1
62.5°	450.4	489.2	560.0	611.3	624.1
65°	403.0	442.7	511.9	563.2	577.6
67.5°	353.4	396.3	465.5	512.6	526.3
70°	306.2	350.8	417.4	461.3	467.1
72.5°	255.6	301.1	368.5	396.3	396.3
75°	209.9	256.3	318.8	323.9	319.7
77.5°	160.2	211.7	252.1	241.9	231.9
80°	115.6	166.2	184.6	166.2	152.5
82.5°	77.5	120.5	111.2	88.5	78.5
85°	43.0	64.1	43.9	24.4	17.6
87.5°	16.0	14.4	4.2	4.2	4.2
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)