

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: P731888

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731888
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-3500K
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

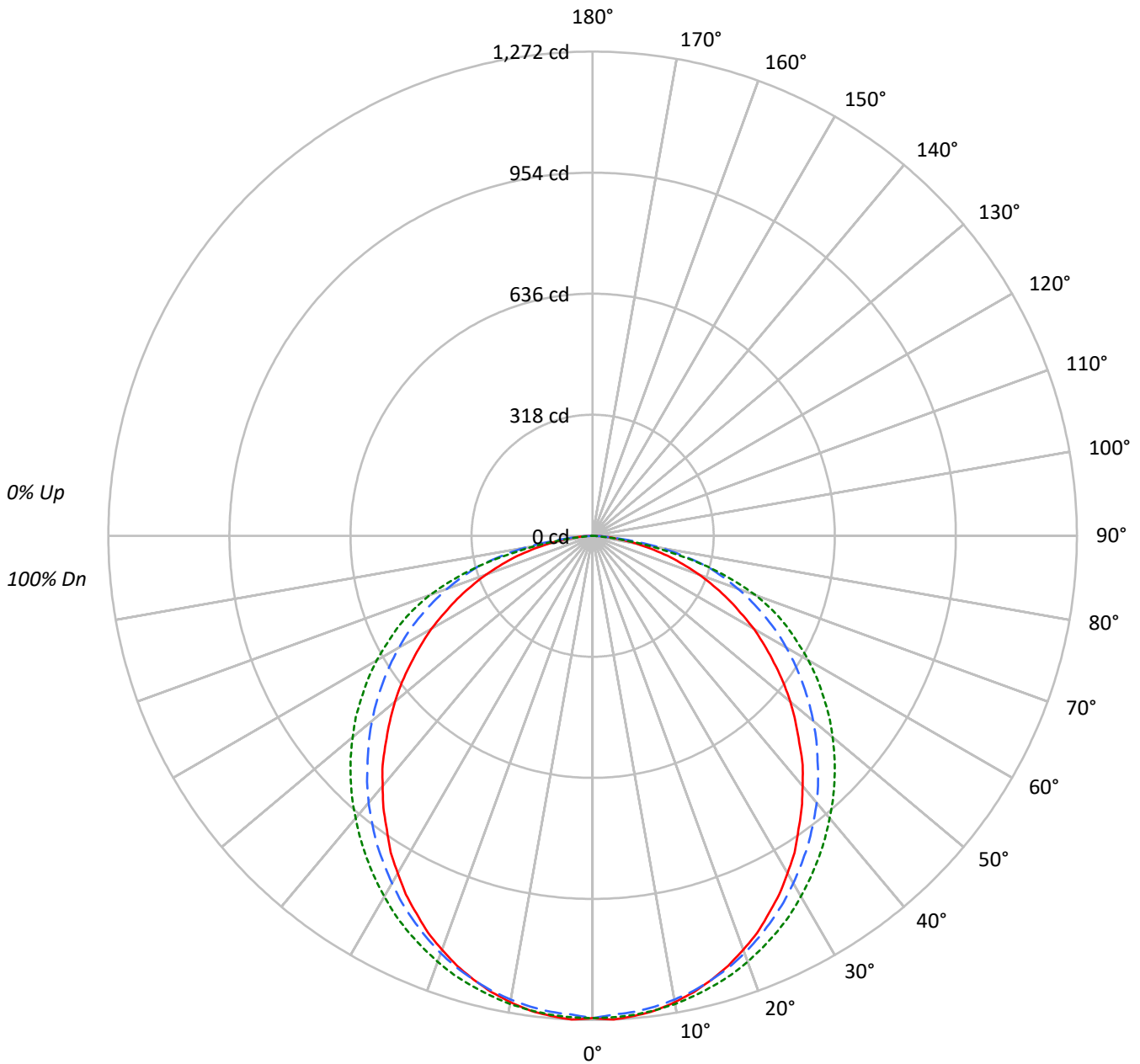
Lumens per Lamp: N/A
Luminaire Lumens: 3678.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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°	3577	3577	3577
5°	3588	3558	3579
10°	3566	3547	3580
15°	3528	3530	3578
20°	3476	3506	3577
25°	3410	3471	3574
30°	3336	3435	3566
35°	3247	3406	3563
40°	3161	3373	3569
45°	3065	3336	3588
50°	2975	3321	3612
55°	2861	3310	3645
60°	2759	3316	3695
65°	2618	3325	3752
70°	2458	3351	3749
75°	2226	3381	3391
80°	1827	2918	2411
85°	1354	1383	557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	3.3
10°-20°	342.5	9.3
20°-30°	516.0	14.0
30°-40°	619.2	16.8
40°-50°	645.3	17.5
50°-60°	597.4	16.2
60°-70°	482.7	13.1
70°-80°	294.3	8.0
80°-90°	60.7	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°	978.4	26.6
0°-40°	1597.5	43.4
0°-60°	2840.3	77.2
0°-90°	3678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1267	1267	1267	1267	1267	
5°	1266	1263	1256	1265	1263	120
15°	1207	1208	1208	1224	1224	340
25°	1095	1101	1114	1142	1147	505
35°	942	957	988	1024	1034	590
45°	768	791	836	882	899	593
55°	581	612	673	725	741	521
65°	392	431	498	548	562	388
75°	204	249	310	315	311	214
85°	42	62	43	24	17	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1267.1	1267.1	1267.1	1267.1	1267.1
2.5°	1272.1	1268.0	1259.0	1268.0	1266.2
5°	1266.2	1263.0	1255.6	1264.6	1263.0
7.5°	1258.1	1254.7	1248.1	1259.0	1257.2
10°	1244.1	1242.5	1237.5	1249.9	1249.0
12.5°	1227.8	1226.9	1224.4	1238.4	1237.5
15°	1207.3	1207.9	1207.9	1224.4	1224.4
17.5°	1184.2	1185.8	1189.2	1207.3	1209.8
20°	1157.1	1160.5	1167.1	1187.6	1190.8
22.5°	1129.4	1131.9	1141.6	1166.2	1169.6
25°	1094.8	1101.4	1114.5	1142.5	1147.4
27.5°	1062.1	1067.7	1085.8	1114.5	1122.8
30°	1023.5	1032.5	1054.0	1085.1	1094.2
32.5°	986.7	996.4	1021.0	1057.1	1065.3
35°	942.4	957.1	988.3	1024.4	1034.1
37.5°	902.2	916.0	951.5	990.7	1002.3
40°	857.8	875.1	915.3	957.1	968.6
42.5°	816.9	833.1	876.7	919.4	935.0
45°	767.7	790.7	835.6	882.4	898.8
47.5°	722.5	745.5	797.2	847.1	862.0
50°	677.4	702.0	756.2	807.9	822.5
52.5°	630.6	657.0	715.1	766.8	784.1
55°	581.4	611.9	672.6	725.0	740.6
57.5°	534.7	565.8	630.6	683.9	699.5
60°	488.8	520.9	587.3	638.1	654.5
62.5°	438.0	475.7	544.6	594.5	606.9
65°	392.0	430.6	497.9	547.8	561.8
67.5°	343.6	385.4	452.7	498.5	511.9
70°	297.8	341.2	406.0	448.6	454.3
72.5°	248.6	292.8	358.3	385.4	385.4
75°	204.1	249.3	310.0	315.0	310.9
77.5°	155.8	205.9	245.2	235.3	225.6
80°	112.4	161.7	179.5	161.7	148.3
82.5°	75.4	117.2	108.2	86.0	76.3
85°	41.8	62.3	42.7	23.7	17.2
87.5°	15.6	14.0	4.1	4.1	4.1
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)