

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: P842957

Luminaire Tested: **22CZ2-39HE-S-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272009)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39HE-S-UNV-B40
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

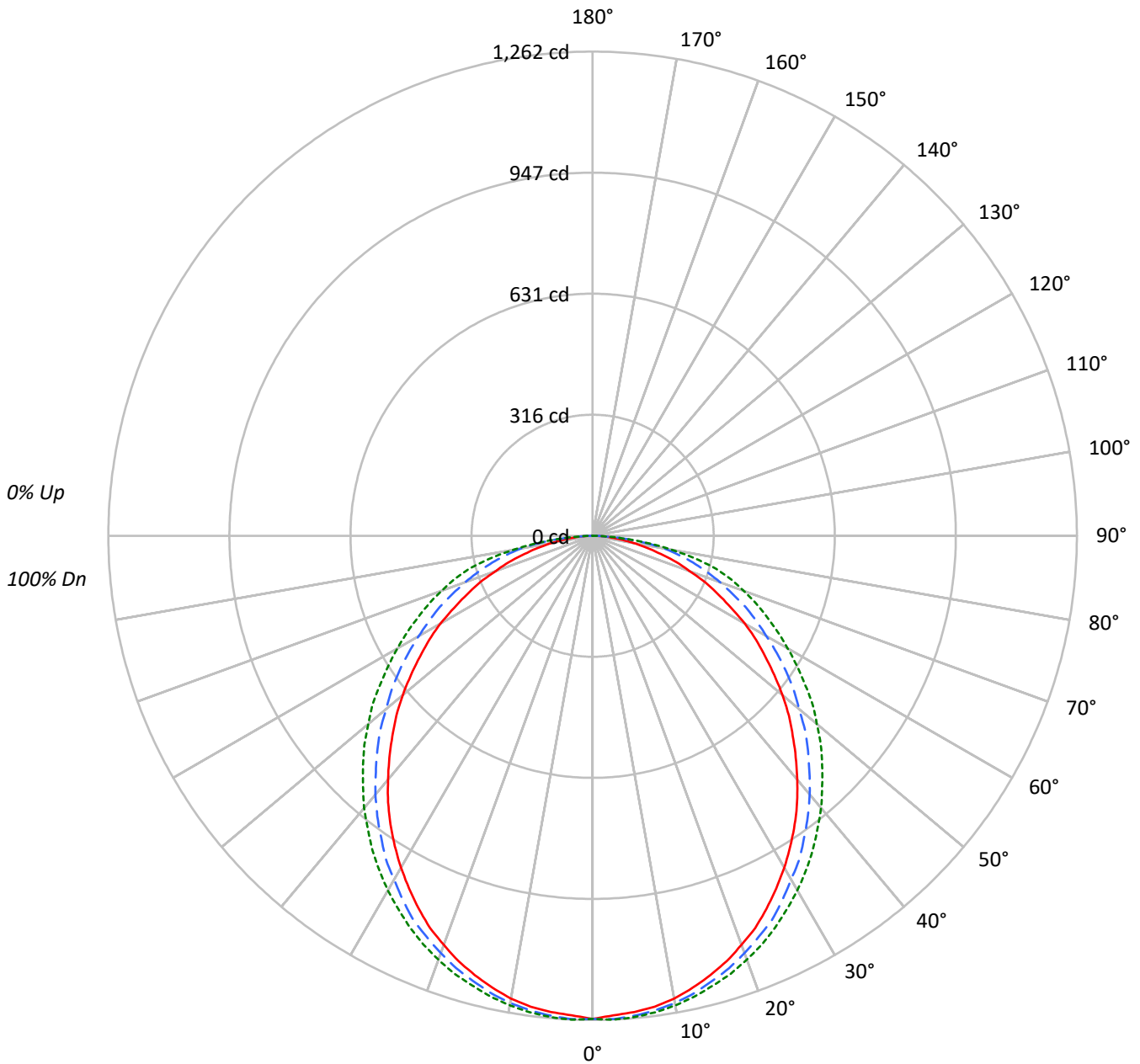
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3514.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 32
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					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	106	101	97	94	97	94	91	93	90	88	89	87	85	83								
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69								
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58								
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49								
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43								
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37								
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33								
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	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	51	39	31	26	38	31	26	37	31	26	36	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3573	3573	3573
5°	3550	3577	3587
10°	3529	3562	3581
15°	3483	3530	3565
20°	3426	3495	3550
25°	3357	3460	3527
30°	3272	3390	3497
35°	3181	3328	3465
40°	3073	3261	3431
45°	2961	3184	3395
50°	2851	3098	3366
55°	2717	3042	3342
60°	2596	2968	3331
65°	2422	2950	3369
70°	2231	2924	3469
75°	2013	2966	3650
80°	1740	3054	3428
85°	1442	2559	2559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	3.4
10°-20°	338.9	9.6
20°-30°	507.1	14.4
30°-40°	600.5	17.1
40°-50°	612.0	17.4
50°-60°	548.5	15.6
60°-70°	429.4	12.2
70°-80°	276.9	7.9
80°-90°	81.8	2.3
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°	965.0	27.5
0°-40°	1565.5	44.5
0°-60°	2725.9	77.6
0°-90°	3514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1246	1249	1256	1258	1259	118
15°	1186	1192	1202	1212	1213	334
25°	1072	1082	1105	1120	1126	494
35°	918	930	961	990	1000	574
45°	738	754	794	835	846	570
55°	549	567	615	658	676	492
65°	361	382	439	482	502	358
75°	184	211	270	316	333	197
85°	44	61	79	79	79	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1259.2	1259.2	1259.2	1259.2	1259.2
2.5°	1250.9	1254.3	1260.8	1262.5	1262.5
5°	1246.2	1249.3	1255.8	1257.6	1259.2
7.5°	1237.9	1239.4	1247.7	1250.9	1252.7
10°	1224.8	1228.0	1236.3	1241.2	1242.8
12.5°	1206.6	1211.6	1221.5	1228.0	1229.8
15°	1185.5	1192.0	1201.7	1211.6	1213.4
17.5°	1162.4	1169.1	1182.1	1193.6	1197.0
20°	1134.5	1142.8	1157.4	1170.7	1175.6
22.5°	1106.7	1113.2	1131.4	1147.8	1152.7
25°	1072.3	1082.2	1105.1	1119.9	1126.4
27.5°	1036.1	1047.6	1070.7	1090.3	1096.8
30°	998.6	1010.0	1034.5	1059.2	1067.3
32.5°	959.1	972.3	1001.7	1026.4	1034.5
35°	918.2	929.6	960.8	990.3	1000.2
37.5°	875.5	885.4	921.5	952.5	962.4
40°	829.6	842.7	880.4	916.6	926.3
42.5°	783.6	798.4	836.2	875.5	885.4
45°	737.8	754.2	793.5	834.6	846.0
47.5°	693.5	706.6	751.0	790.3	806.7
50°	645.9	659.1	701.8	746.1	762.5
52.5°	596.7	614.9	660.7	703.4	723.0
55°	549.3	567.3	614.9	657.6	675.5
57.5°	505.0	519.6	568.8	613.1	631.3
60°	457.4	470.6	523.0	570.6	587.0
62.5°	406.6	426.2	480.3	524.6	544.3
65°	360.8	381.9	439.4	482.1	501.7
67.5°	318.1	337.7	393.6	439.4	460.8
70°	268.9	295.2	352.5	398.3	418.1
72.5°	229.6	252.5	311.6	357.4	378.8
75°	183.6	211.4	270.5	316.5	332.9
77.5°	146.0	173.9	229.6	265.6	273.8
80°	106.5	134.4	186.9	204.9	209.8
82.5°	72.1	98.4	134.4	139.3	141.1
85°	44.3	60.7	78.6	78.6	78.6
87.5°	21.3	24.5	27.9	26.3	26.3
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)