

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: P732037

Luminaire Tested: **22CZ2-39HE-B2750-W2D-3000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732037  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P271965)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-39HE-B2750-W2D-3000K  
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

**Summary**

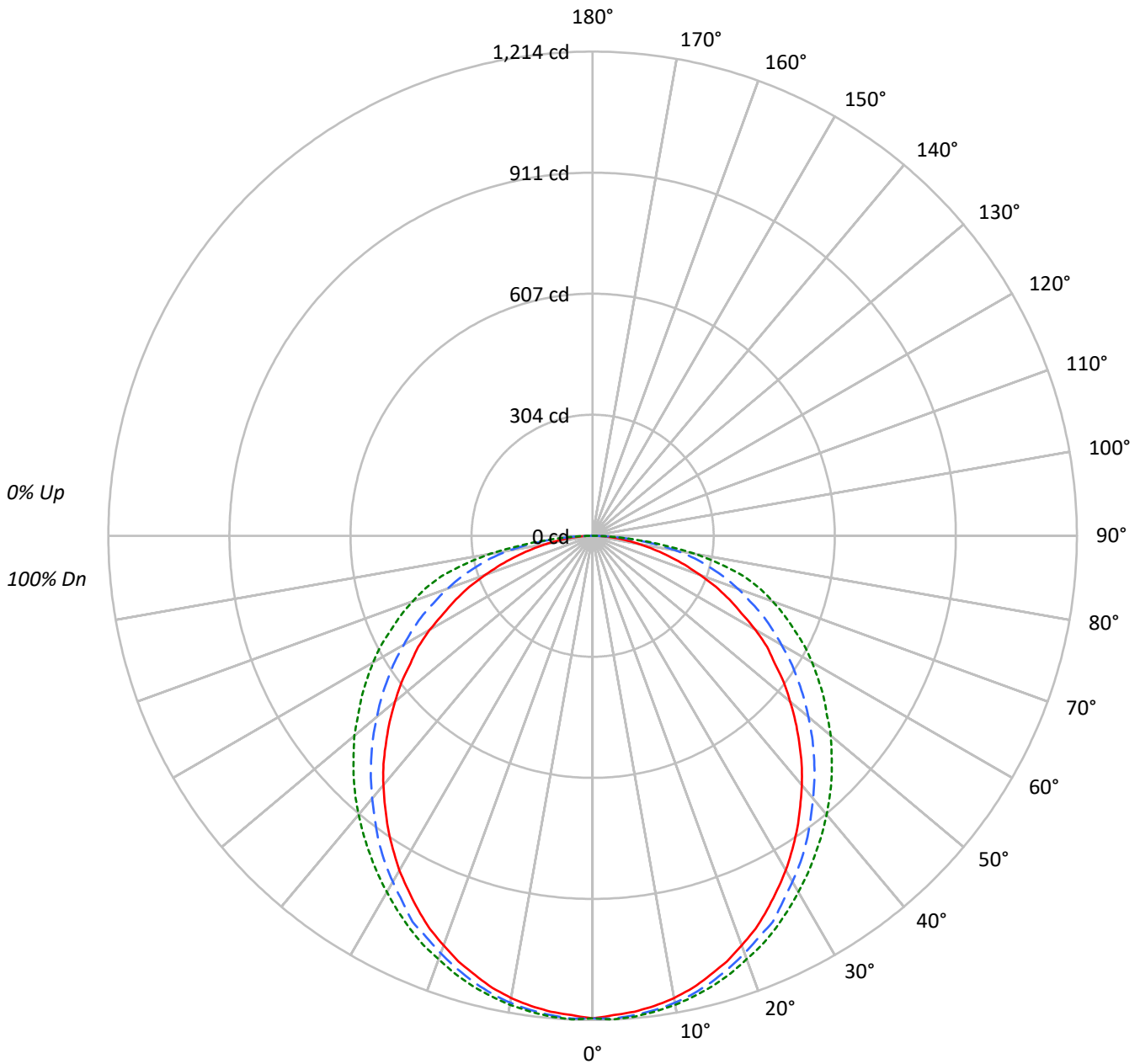
Lumens per Lamp: N/A  
Luminaire Lumens: 3559.0 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 32  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56																			
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48																			
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36																			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32																			
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28																			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25																			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3434	3434	3434
5°	3412	3437	3447
10°	3391	3426	3441
15°	3349	3400	3431
20°	3300	3364	3411
25°	3240	3345	3400
30°	3173	3282	3380
35°	3100	3239	3373
40°	3023	3185	3379
45°	2938	3149	3401
50°	2853	3115	3441
55°	2755	3102	3500
60°	2673	3101	3607
65°	2539	3151	3739
70°	2369	3211	3981
75°	2171	3323	4301
80°	1889	3463	4236
85°	1657	3077	3366



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.4	3.2
10°-20°	326.0	9.2
20°-30°	489.3	13.7
30°-40°	584.7	16.4
40°-50°	608.0	17.1
50°-60°	563.5	15.8
60°-70°	462.2	13.0
70°-80°	312.5	8.8
80°-90°	98.2	2.8
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°	929.7	26.1
0°-40°	1514.5	42.6
0°-60°	2686.0	75.5
0°-90°	3559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3559.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1198	1200	1206	1208	1210	114
15°	1140	1145	1158	1164	1168	322
25°	1035	1044	1068	1080	1086	477
35°	895	907	935	963	974	559
45°	732	746	785	830	848	565
55°	557	574	627	683	707	500
65°	378	399	469	531	557	374
75°	198	231	303	364	392	210
85°	51	70	94	105	103	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1203.1	1206.5	1211.8	1213.7	1213.7
5°	1197.9	1199.5	1206.5	1208.4	1210.1
7.5°	1189.0	1192.6	1199.5	1201.4	1203.1
10°	1176.8	1180.3	1189.0	1192.6	1194.3
12.5°	1161.1	1164.5	1175.1	1180.3	1182.0
15°	1140.0	1145.3	1157.5	1164.5	1168.1
17.5°	1119.1	1124.2	1136.7	1147.0	1150.6
20°	1092.8	1105.0	1113.9	1127.8	1129.5
22.5°	1066.6	1073.6	1089.2	1103.3	1110.3
25°	1034.9	1043.8	1068.3	1080.5	1085.8
27.5°	1001.8	1014.0	1033.2	1052.4	1059.4
30°	968.5	977.1	1001.8	1024.4	1031.6
32.5°	931.7	944.0	970.1	992.9	1003.5
35°	894.8	907.0	935.1	963.2	973.7
37.5°	854.7	868.6	896.7	929.8	944.0
40°	816.1	826.6	859.8	900.1	912.3
42.5°	775.8	788.0	823.1	866.9	880.9
45°	732.1	746.0	784.6	830.0	847.5
47.5°	689.9	704.0	746.0	791.6	812.5
50°	646.2	663.7	705.7	758.3	779.4
52.5°	604.2	620.0	667.3	721.5	740.7
55°	556.9	574.4	627.0	682.9	707.4
57.5°	518.3	530.6	588.4	646.2	670.7
60°	471.0	486.9	546.4	607.6	635.6
62.5°	420.4	446.6	507.8	570.9	598.9
65°	378.2	399.3	469.3	530.6	556.9
67.5°	334.5	357.3	425.5	490.5	520.2
70°	285.5	315.3	387.0	451.8	479.9
72.5°	241.6	273.3	346.7	409.8	439.6
75°	198.0	231.1	303.1	364.3	392.3
77.5°	156.0	192.7	262.7	310.0	327.5
80°	115.6	150.7	211.9	245.2	259.2
82.5°	80.6	110.4	156.0	173.5	176.9
85°	50.9	70.1	94.5	105.1	103.4
87.5°	22.8	28.1	35.0	38.6	36.7
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)