

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: P843020

Luminaire Tested: **24CZ2-35-SQR-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-35-SQR-UNV-B40  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -  
Ballast/Driver: -

**Summary**

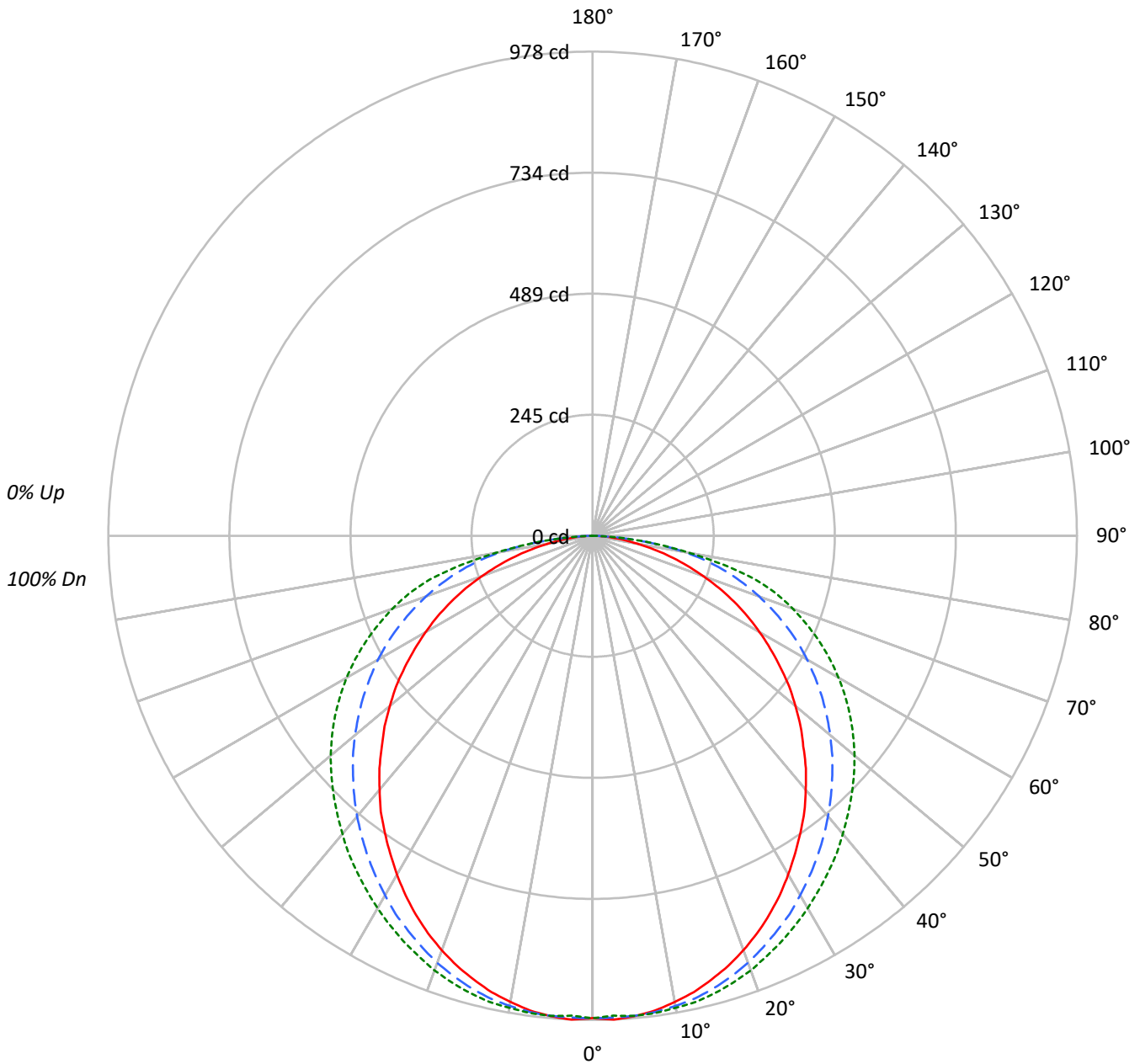
Lumens per Lamp: N/A  
Luminaire Lumens: 3048.0 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

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

	0°	45°	90°
0°	1375	1375	1375
5°	1380	1379	1379
10°	1370	1382	1388
15°	1356	1382	1397
20°	1338	1379	1403
25°	1315	1371	1408
30°	1288	1366	1416
35°	1261	1363	1429
40°	1233	1363	1448
45°	1201	1366	1477
50°	1174	1374	1516
55°	1139	1389	1563
60°	1099	1412	1619
65°	1052	1438	1687
70°	976	1475	1774
75°	884	1526	1855
80°	744	1530	1595
85°	570	1156	1156



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.5	3.0
10°-20°	266.1	8.7
20°-30°	404.2	13.3
30°-40°	491.6	16.1
40°-50°	523.4	17.2
50°-60°	498.5	16.4
60°-70°	416.9	13.7
70°-80°	278.0	9.1
80°-90°	76.9	2.5
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°	762.7	25.0
0°-40°	1254.3	41.2
0°-60°	2276.3	74.7
0°-90°	3048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3048.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	974	974	974	974	974	
5°	974	968	973	973	973	92
15°	928	930	946	953	956	262
25°	844	856	881	896	904	389
35°	732	753	791	817	829	458
45°	602	634	684	723	740	465
55°	463	503	565	614	635	414
65°	315	361	431	484	505	311
75°	162	213	280	327	340	172
85°	35	65	71	70	71	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	974.2	974.2	974.2	974.2	974.2
2.5°	978.3	971.2	974.2	974.2	970.3
5°	974.2	968.2	973.3	973.3	973.3
7.5°	967.3	962.2	970.3	972.3	972.3
10°	956.2	954.2	964.3	967.3	968.2
12.5°	944.2	943.1	957.2	961.2	964.3
15°	927.9	930.0	946.1	953.2	956.2
17.5°	910.9	914.9	933.0	943.1	946.1
20°	890.8	896.8	918.0	927.9	934.1
22.5°	868.7	877.7	899.8	911.8	918.9
25°	844.5	855.5	880.7	895.8	903.9
27.5°	818.3	832.4	861.6	878.6	886.7
30°	790.1	806.2	838.5	858.6	868.7
32.5°	760.9	780.0	815.3	837.4	849.4
35°	731.7	752.9	791.1	817.3	829.3
37.5°	702.6	723.6	766.0	794.1	809.3
40°	669.3	694.4	739.8	771.0	786.1
42.5°	637.2	664.2	712.6	746.8	763.0
45°	601.8	634.1	684.4	722.7	739.8
47.5°	569.7	601.8	656.2	696.5	715.6
50°	534.5	568.6	626.0	670.4	690.5
52.5°	500.2	535.5	595.8	643.2	663.3
55°	463.0	503.2	564.7	614.0	635.1
57.5°	425.8	469.1	532.4	583.8	605.0
60°	389.5	433.7	500.2	551.6	573.7
62.5°	353.3	397.5	467.0	519.3	540.5
65°	315.0	361.3	430.7	484.1	505.3
67.5°	276.8	325.1	394.5	447.9	468.0
70°	236.5	287.9	357.4	409.7	429.8
72.5°	199.3	250.6	319.0	370.4	389.5
75°	162.1	213.3	279.8	327.1	340.2
77.5°	125.8	177.1	236.5	267.8	270.8
80°	91.6	140.0	188.2	197.3	196.2
82.5°	61.3	104.6	129.9	130.8	133.8
85°	35.2	65.4	71.4	70.5	71.4
87.5°	14.1	23.2	20.1	15.0	15.0
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)