

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: P732157

Luminaire Tested: **24CZ2-35-SQR-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732157  
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-B2750-W2D-3000K  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

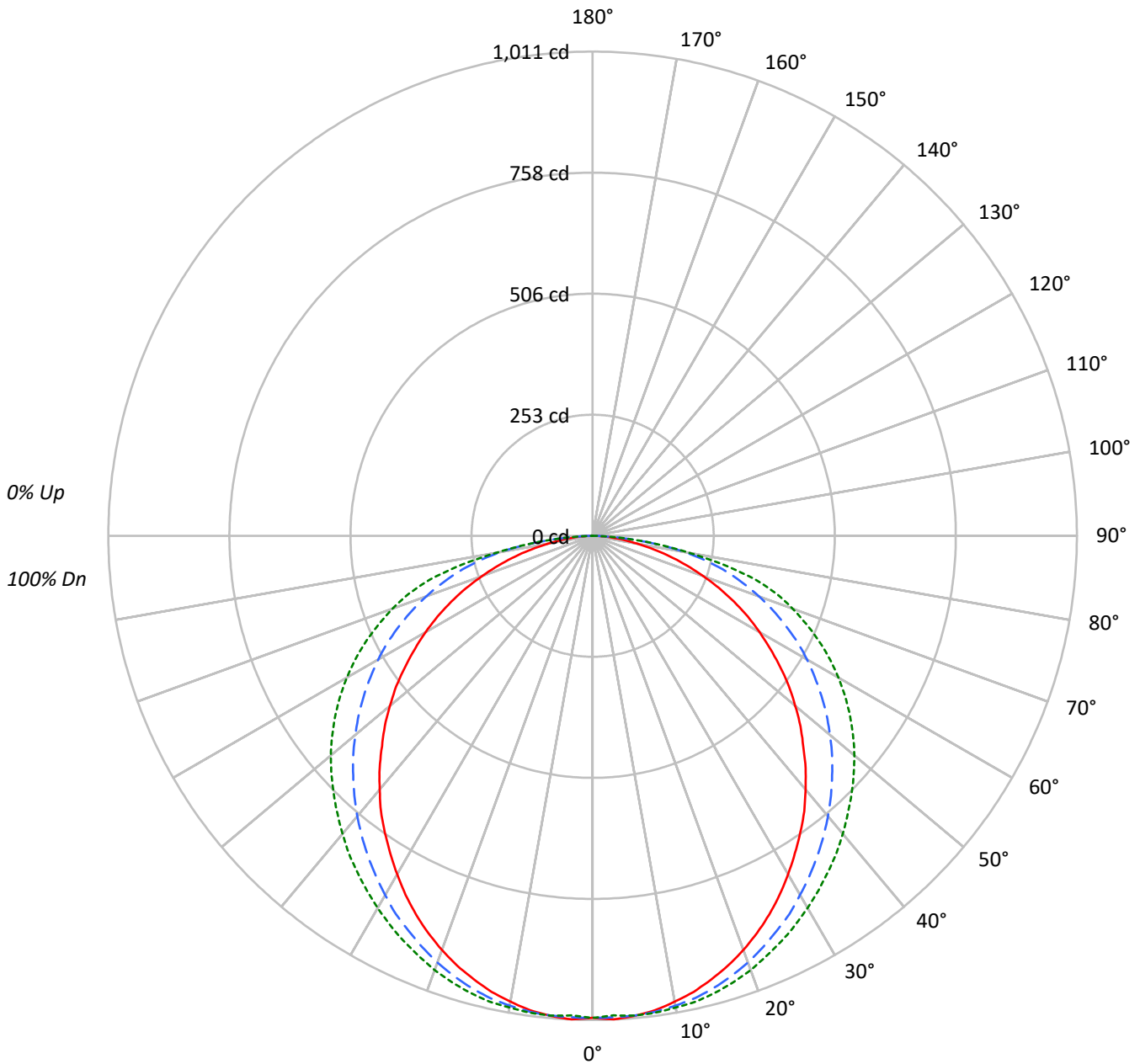
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3149.0 lumens  
Efficiency: N/A  
Efficacy: 112.5 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				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	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°	1421	1421	1421
5°	1426	1425	1425
10°	1416	1428	1434
15°	1401	1428	1443
20°	1382	1424	1449
25°	1359	1417	1454
30°	1330	1412	1463
35°	1303	1408	1476
40°	1274	1408	1496
45°	1241	1411	1525
50°	1212	1420	1566
55°	1177	1436	1614
60°	1136	1459	1673
65°	1087	1486	1743
70°	1008	1523	1833
75°	913	1576	1917
80°	769	1581	1647
85°	589	1195	1195



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.5	3.0
10°-20°	274.9	8.7
20°-30°	417.6	13.3
30°-40°	507.9	16.1
40°-50°	540.7	17.2
50°-60°	515.0	16.4
60°-70°	430.7	13.7
70°-80°	287.2	9.1
80°-90°	79.4	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°	788.0	25.0
0°-40°	1295.9	41.2
0°-60°	2351.7	74.7
0°-90°	3149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3149.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1006	1000	1006	1006	1006	95
15°	959	961	978	985	988	270
25°	872	884	910	925	934	402
35°	756	778	817	844	857	473
45°	622	655	707	747	764	481
55°	478	520	583	634	656	428
65°	325	373	445	500	522	322
75°	167	220	289	338	352	177
85°	36	68	74	73	74	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1006.5	1006.5	1006.5	1006.5	1006.5
2.5°	1010.7	1003.4	1006.5	1006.5	1002.5
5°	1006.5	1000.3	1005.6	1005.6	1005.6
7.5°	999.4	994.1	1002.5	1004.5	1004.5
10°	987.9	985.8	996.2	999.4	1000.3
12.5°	975.4	974.4	989.0	993.0	996.2
15°	958.7	960.8	977.5	984.8	987.9
17.5°	941.1	945.2	963.9	974.4	977.5
20°	920.3	926.5	948.4	958.7	965.0
22.5°	897.5	906.8	929.6	942.1	949.4
25°	872.5	883.8	909.9	925.4	933.8
27.5°	845.4	860.0	890.2	907.7	916.1
30°	816.2	832.9	866.2	887.1	897.5
32.5°	786.1	805.8	842.3	865.2	877.6
35°	756.0	777.9	817.3	844.4	856.8
37.5°	725.8	747.6	791.4	820.4	836.1
40°	691.5	717.5	764.3	796.5	812.2
42.5°	658.3	686.2	736.2	771.5	788.3
45°	621.8	655.2	707.0	746.6	764.3
47.5°	588.5	621.8	678.0	719.6	739.3
50°	552.2	587.5	646.8	692.6	713.4
52.5°	516.8	553.3	615.6	664.5	685.3
55°	478.4	519.9	583.4	634.3	656.1
57.5°	439.9	484.6	550.0	603.1	625.0
60°	402.4	448.1	516.8	569.9	592.7
62.5°	365.0	410.7	482.4	536.5	558.4
65°	325.4	373.3	445.0	500.2	522.0
67.5°	286.0	335.8	407.6	462.7	483.5
70°	244.3	297.4	369.2	423.3	444.1
72.5°	206.0	258.9	329.6	382.7	402.4
75°	167.4	220.4	289.1	338.0	351.5
77.5°	130.0	183.0	244.3	276.6	279.7
80°	94.6	144.6	194.5	203.8	202.7
82.5°	63.4	108.1	134.2	135.1	138.2
85°	36.4	67.6	73.8	72.8	73.8
87.5°	14.6	23.9	20.8	15.5	15.5
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)