

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: P731857

Luminaire Tested: **14CZ2-29-SQR-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-SQR-B2750-W2D-3000K
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

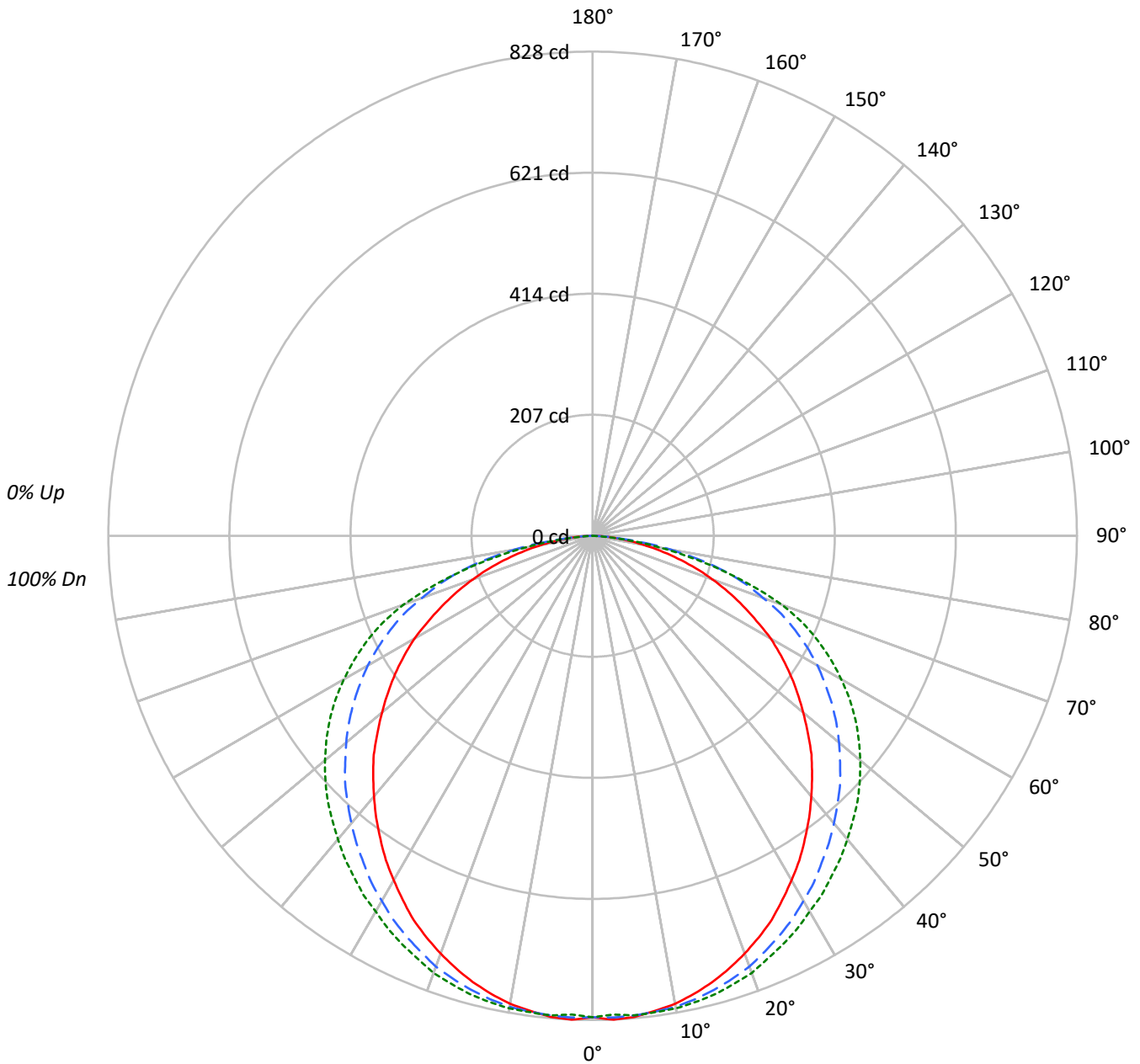
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2605.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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				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	105	101	97	93	97	93	90	93	90	87	89	87	85	83			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41			
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	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°	2324	2324	2324
5°	2340	2333	2333
10°	2329	2345	2352
15°	2310	2348	2371
20°	2284	2354	2390
25°	2257	2351	2400
30°	2217	2350	2418
35°	2181	2352	2452
40°	2143	2365	2496
45°	2112	2390	2558
50°	2064	2416	2623
55°	2029	2455	2701
60°	1986	2505	2772
65°	1894	2551	2842
70°	1798	2557	2839
75°	1647	2549	2505
80°	1408	2177	1942
85°	1108	1231	725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	3.0
10°-20°	226.0	8.7
20°-30°	345.6	13.3
30°-40°	423.6	16.3
40°-50°	455.6	17.5
50°-60°	437.8	16.8
60°-70°	364.6	14.0
70°-80°	223.8	8.6
80°-90°	49.8	1.9
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°	649.8	24.9
0°-40°	1073.5	41.2
0°-60°	1966.9	75.5
0°-90°	2605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	826	818	823	823	823	78
15°	790	788	804	809	812	223
25°	725	731	755	764	771	333
35°	633	649	683	701	712	396
45°	529	553	599	626	641	407
55°	412	448	499	533	549	368
65°	284	327	382	414	426	281
75°	151	197	234	232	230	160
85°	34	51	38	26	22	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.3	823.3	823.3	823.3	823.3
2.5°	828.4	820.6	824.6	823.3	819.3
5°	825.8	818.0	823.3	823.3	823.3
7.5°	819.3	812.7	820.6	821.8	821.8
10°	812.7	807.5	818.0	819.3	820.6
12.5°	802.2	798.2	811.5	814.0	816.6
15°	790.4	787.8	803.5	808.7	811.5
17.5°	776.0	777.3	794.4	800.9	803.5
20°	760.2	764.2	783.8	790.4	795.6
22.5°	743.1	748.3	769.4	777.3	782.5
25°	724.7	731.2	754.9	764.2	770.7
27.5°	702.3	712.9	739.2	751.1	757.6
30°	680.1	691.9	720.9	735.2	741.8
32.5°	657.8	670.9	703.8	718.1	728.7
35°	632.8	648.6	682.7	701.1	711.6
37.5°	607.9	626.3	663.0	684.0	695.8
40°	581.5	601.4	641.9	665.6	677.4
42.5°	555.3	577.7	619.7	645.9	659.0
45°	529.1	552.8	598.6	626.3	640.7
47.5°	498.9	527.9	573.7	605.2	619.7
50°	470.0	501.5	550.1	583.0	597.4
52.5°	441.1	474.0	525.2	559.3	573.7
55°	412.2	447.7	498.9	533.0	548.8
57.5°	382.0	418.7	471.3	506.8	521.2
60°	351.8	390.0	443.8	476.6	491.0
62.5°	316.3	361.1	413.6	446.4	459.5
65°	283.6	326.9	382.0	413.6	425.5
67.5°	250.8	295.4	349.2	378.2	388.6
70°	217.9	262.7	309.8	337.4	344.0
72.5°	185.2	229.7	274.5	290.1	287.6
75°	151.0	197.0	233.7	232.5	229.7
77.5°	118.2	162.8	185.2	175.9	172.1
80°	86.6	130.0	133.9	124.8	119.5
82.5°	59.1	93.1	84.0	73.5	68.2
85°	34.2	51.1	38.0	26.2	22.4
87.5°	14.4	13.1	4.0	4.0	2.6
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)