

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: P731806

Luminaire Tested: **14CZ2-20-SQR-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731806
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: 14CZ2-20-SQR-B2750-W2D-2700K
Description: 1X4 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

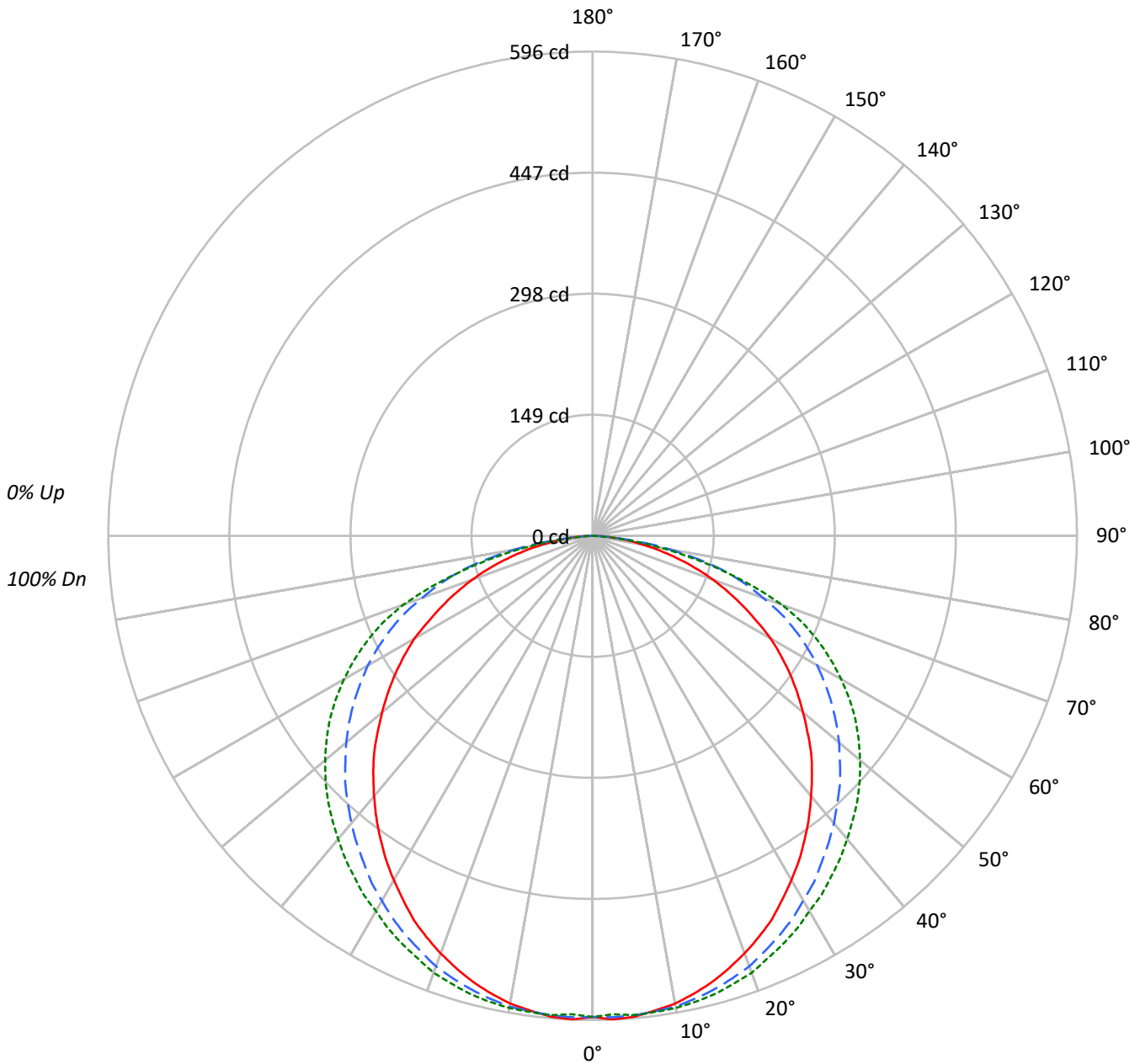
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1874.0 lumens
Efficiency: N/A
Efficacy: 117.1 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): 16
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									
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	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°	1672	1672	1672
5°	1683	1678	1678
10°	1676	1687	1692
15°	1662	1689	1706
20°	1643	1694	1719
25°	1624	1691	1727
30°	1595	1690	1739
35°	1569	1692	1764
40°	1542	1702	1796
45°	1520	1719	1840
50°	1485	1738	1887
55°	1459	1766	1943
60°	1429	1803	1994
65°	1363	1835	2044
70°	1294	1840	2043
75°	1184	1833	1803
80°	1013	1565	1398
85°	797	887	521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	3.0
10°-20°	162.6	8.7
20°-30°	248.6	13.3
30°-40°	304.7	16.3
40°-50°	327.7	17.5
50°-60°	314.9	16.8
60°-70°	262.3	14.0
70°-80°	161.0	8.6
80°-90°	35.9	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°	467.5	24.9
0°-40°	772.2	41.2
0°-60°	1414.9	75.5
0°-90°	1874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1874.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	594	588	592	592	592	56
15°	569	567	578	582	584	160
25°	521	526	543	550	554	240
35°	455	467	491	504	512	285
45°	381	398	431	450	461	293
55°	296	322	359	383	395	265
65°	204	235	275	298	306	202
75°	109	142	168	167	165	115
85°	25	37	27	19	16	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	592.3	592.3	592.3	592.3	592.3
2.5°	595.9	590.3	593.2	592.3	589.4
5°	594.1	588.5	592.3	592.3	592.3
7.5°	589.4	584.7	590.3	591.2	591.2
10°	584.7	580.9	588.5	589.4	590.3
12.5°	577.1	574.2	583.7	585.6	587.4
15°	568.6	566.7	578.0	581.8	583.7
17.5°	558.2	559.2	571.4	576.2	578.0
20°	546.9	549.7	563.9	568.6	572.4
22.5°	534.6	538.3	553.5	559.2	562.9
25°	521.3	526.1	543.1	549.7	554.4
27.5°	505.2	512.8	531.8	540.3	545.0
30°	489.3	497.8	518.6	528.9	533.6
32.5°	473.2	482.6	506.3	516.6	524.2
35°	455.3	466.6	491.1	504.3	511.9
37.5°	437.3	450.5	477.0	492.0	500.5
40°	418.4	432.6	461.8	478.8	487.3
42.5°	399.5	415.6	445.8	464.7	474.1
45°	380.7	397.7	430.7	450.5	460.9
47.5°	358.9	379.7	412.7	435.4	445.8
50°	338.1	360.8	395.7	419.4	429.7
52.5°	317.3	341.0	377.8	402.4	412.7
55°	296.5	322.0	358.9	383.4	394.8
57.5°	274.8	301.2	339.1	364.6	374.9
60°	253.1	280.6	319.3	342.8	353.2
62.5°	227.6	259.7	297.6	321.1	330.5
65°	204.0	235.2	274.8	297.6	306.1
67.5°	180.4	212.5	251.2	272.0	279.5
70°	156.8	189.0	222.9	242.7	247.5
72.5°	133.2	165.3	197.5	208.7	206.9
75°	108.6	141.7	168.1	167.2	165.3
77.5°	85.1	117.1	133.2	126.5	123.8
80°	62.3	93.6	96.3	89.8	86.0
82.5°	42.5	67.0	60.5	52.9	49.1
85°	24.6	36.8	27.4	18.8	16.1
87.5°	10.3	9.4	2.9	2.9	1.8
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)