

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: P731807

Luminaire Tested: **14CZ2-20-SQR-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731807
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-3000K
Description: 1X4 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

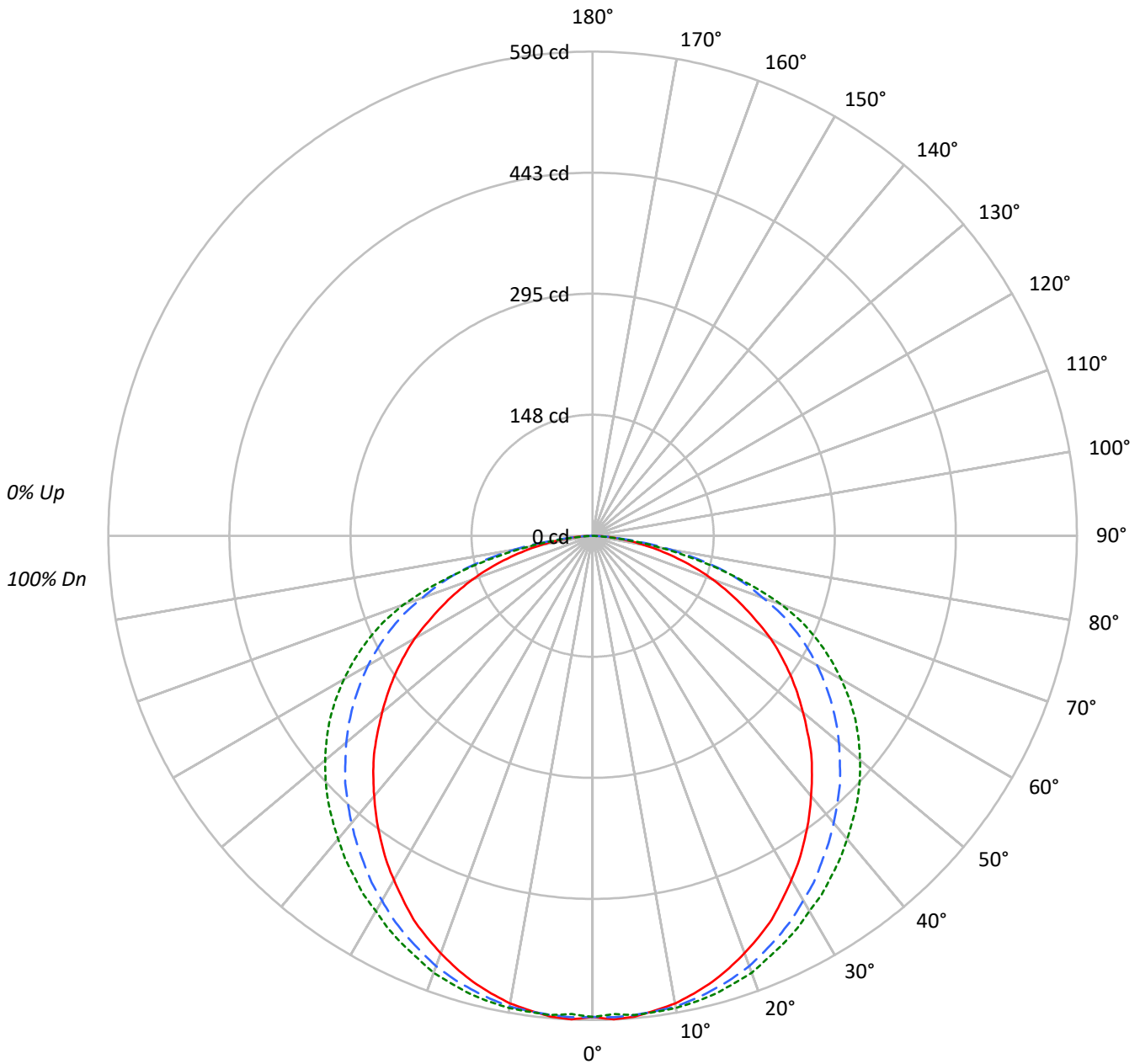
Lumens per Lamp: N/A
Luminaire Lumens: 1855.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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				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°	1655	1655	1655
5°	1666	1661	1661
10°	1659	1670	1675
15°	1645	1672	1688
20°	1626	1676	1702
25°	1607	1674	1709
30°	1579	1673	1722
35°	1553	1675	1746
40°	1526	1684	1778
45°	1504	1702	1821
50°	1470	1720	1868
55°	1444	1748	1923
60°	1414	1784	1974
65°	1348	1817	2024
70°	1281	1821	2021
75°	1172	1815	1784
80°	1003	1549	1383
85°	787	878	515



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	3.0
10°-20°	160.9	8.7
20°-30°	246.1	13.3
30°-40°	301.6	16.3
40°-50°	324.4	17.5
50°-60°	311.8	16.8
60°-70°	259.6	14.0
70°-80°	159.3	8.6
80°-90°	35.5	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°	462.7	24.9
0°-40°	764.4	41.2
0°-60°	1400.6	75.5
0°-90°	1855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	588	582	586	586	586	56
15°	563	561	572	576	578	159
25°	516	521	538	544	549	237
35°	451	462	486	499	507	282
45°	377	394	426	446	456	290
55°	294	319	355	380	391	262
65°	202	233	272	294	303	200
75°	108	140	166	166	164	114
85°	24	36	27	19	16	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	586.2	586.2	586.2	586.2	586.2
2.5°	589.9	584.3	587.2	586.2	583.4
5°	588.1	582.5	586.2	586.2	586.2
7.5°	583.4	578.7	584.3	585.2	585.2
10°	578.7	575.0	582.5	583.4	584.3
12.5°	571.2	568.4	577.8	579.6	581.5
15°	562.8	561.0	572.1	575.9	577.8
17.5°	552.6	553.5	565.7	570.3	572.1
20°	541.3	544.2	558.1	562.8	566.6
22.5°	529.1	532.9	547.9	553.5	557.2
25°	516.1	520.7	537.6	544.2	548.8
27.5°	500.1	507.6	526.4	534.8	539.5
30°	484.3	492.7	513.3	523.6	528.2
32.5°	468.4	477.7	501.1	511.4	518.9
35°	450.6	461.9	486.1	499.2	506.7
37.5°	432.9	446.0	472.1	487.0	495.5
40°	414.1	428.2	457.1	474.0	482.4
42.5°	395.5	411.4	441.3	460.0	469.3
45°	376.8	393.6	426.3	446.0	456.2
47.5°	355.3	375.9	408.5	431.0	441.3
50°	334.7	357.1	391.7	415.1	425.4
52.5°	314.1	337.5	374.0	398.3	408.5
55°	293.5	318.8	355.3	379.5	390.8
57.5°	272.0	298.2	335.6	360.9	371.1
60°	250.5	277.7	316.0	339.4	349.6
62.5°	225.3	257.1	294.5	317.9	327.2
65°	201.9	232.8	272.0	294.5	303.0
67.5°	178.6	210.4	248.7	269.3	276.7
70°	155.2	187.0	220.6	240.3	244.9
72.5°	131.9	163.6	195.5	206.6	204.8
75°	107.5	140.3	166.4	165.5	163.6
77.5°	84.2	115.9	131.9	125.3	122.5
80°	61.7	92.6	95.3	88.9	85.1
82.5°	42.1	66.3	59.8	52.3	48.6
85°	24.3	36.4	27.1	18.7	15.9
87.5°	10.2	9.3	2.8	2.8	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)