

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: P842811

Luminaire Tested: **14CZ2-20-SQR-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842811
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-UNV-B50
Description: 1X4 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

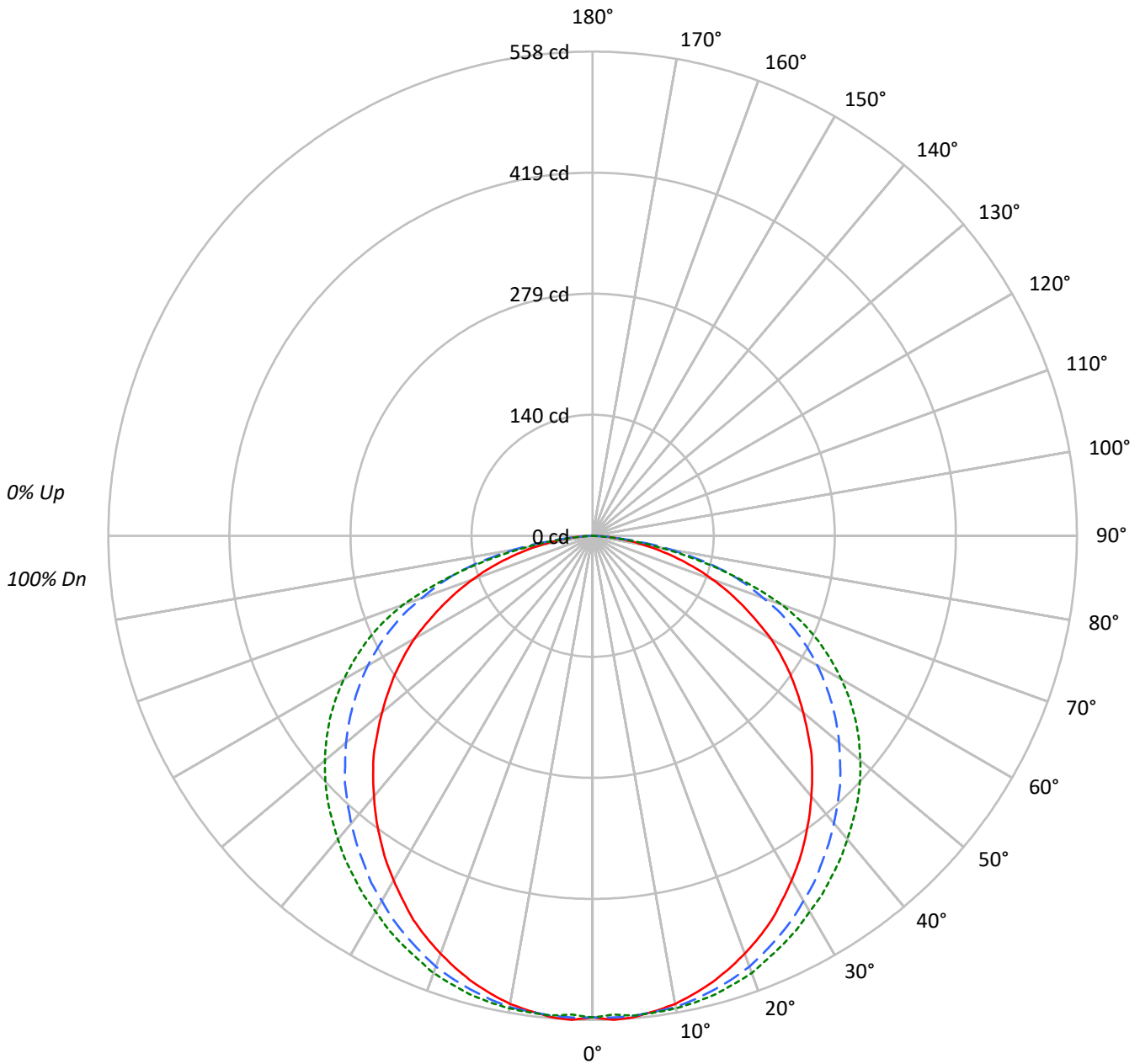
Lumens per Lamp: N/A
Luminaire Lumens: 1756.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1567	1567	1567
5°	1577	1573	1573
10°	1570	1580	1585
15°	1557	1583	1598
20°	1539	1587	1611
25°	1521	1585	1618
30°	1494	1584	1630
35°	1470	1586	1653
40°	1444	1594	1682
45°	1424	1611	1724
50°	1391	1628	1768
55°	1368	1655	1820
60°	1339	1689	1869
65°	1277	1720	1916
70°	1212	1723	1914
75°	1110	1719	1689
80°	949	1466	1310
85°	745	829	489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	3.0
10°-20°	152.3	8.7
20°-30°	233.0	13.3
30°-40°	285.6	16.3
40°-50°	307.1	17.5
50°-60°	295.1	16.8
60°-70°	245.7	14.0
70°-80°	150.8	8.6
80°-90°	33.6	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°	438.0	24.9
0°-40°	723.6	41.2
0°-60°	1325.8	75.5
0°-90°	1756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	555	555	555	555	555	
5°	557	551	555	555	555	53
15°	533	531	542	545	547	150
25°	488	493	509	515	520	225
35°	427	437	460	473	480	267
45°	357	373	404	422	432	274
55°	278	302	336	359	370	248
65°	191	220	258	279	287	189
75°	102	133	158	157	155	108
85°	23	34	26	18	15	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	555.0	555.0	555.0	555.0	555.0
2.5°	558.4	553.1	555.8	555.0	552.3
5°	556.7	551.4	555.0	555.0	555.0
7.5°	552.3	547.9	553.1	554.0	554.0
10°	547.9	544.3	551.4	552.3	553.1
12.5°	540.7	538.1	547.0	548.7	550.4
15°	532.8	531.1	541.6	545.2	547.0
17.5°	523.1	523.9	535.5	539.9	541.6
20°	512.4	515.1	528.4	532.8	536.3
22.5°	500.9	504.4	518.7	523.9	527.5
25°	488.5	492.9	508.9	515.1	519.5
27.5°	473.4	480.5	498.3	506.3	510.7
30°	458.5	466.4	485.9	495.6	500.0
32.5°	443.4	452.2	474.4	484.1	491.2
35°	426.6	437.2	460.2	472.6	479.7
37.5°	409.8	422.2	446.9	461.0	469.0
40°	392.0	405.4	432.7	448.7	456.6
42.5°	374.4	389.4	417.8	435.4	444.2
45°	356.7	372.6	403.5	422.2	431.9
47.5°	336.3	355.8	386.7	408.0	417.8
50°	316.8	338.1	370.8	393.0	402.7
52.5°	297.3	319.5	354.0	377.0	386.7
55°	277.9	301.8	336.3	359.3	369.9
57.5°	257.5	282.3	317.7	341.6	351.3
60°	237.1	262.9	299.2	321.3	331.0
62.5°	213.2	243.4	278.8	300.9	309.7
65°	191.2	220.3	257.5	278.8	286.8
67.5°	169.1	199.1	235.4	254.9	261.9
70°	146.9	177.1	208.8	227.5	231.9
72.5°	124.8	154.9	185.0	195.6	193.9
75°	101.8	132.8	157.6	156.7	154.9
77.5°	79.7	109.7	124.8	118.6	116.0
80°	58.4	87.7	90.2	84.1	80.6
82.5°	39.8	62.8	56.6	49.5	46.0
85°	23.0	34.5	25.6	17.7	15.1
87.5°	9.7	8.8	2.7	2.7	1.7
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)