

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: P881052

Luminaire Tested: **22CZ2-20VHE-RDP-UNV-B50**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P881052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474998)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20VHE-RDP-UNV-B50
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

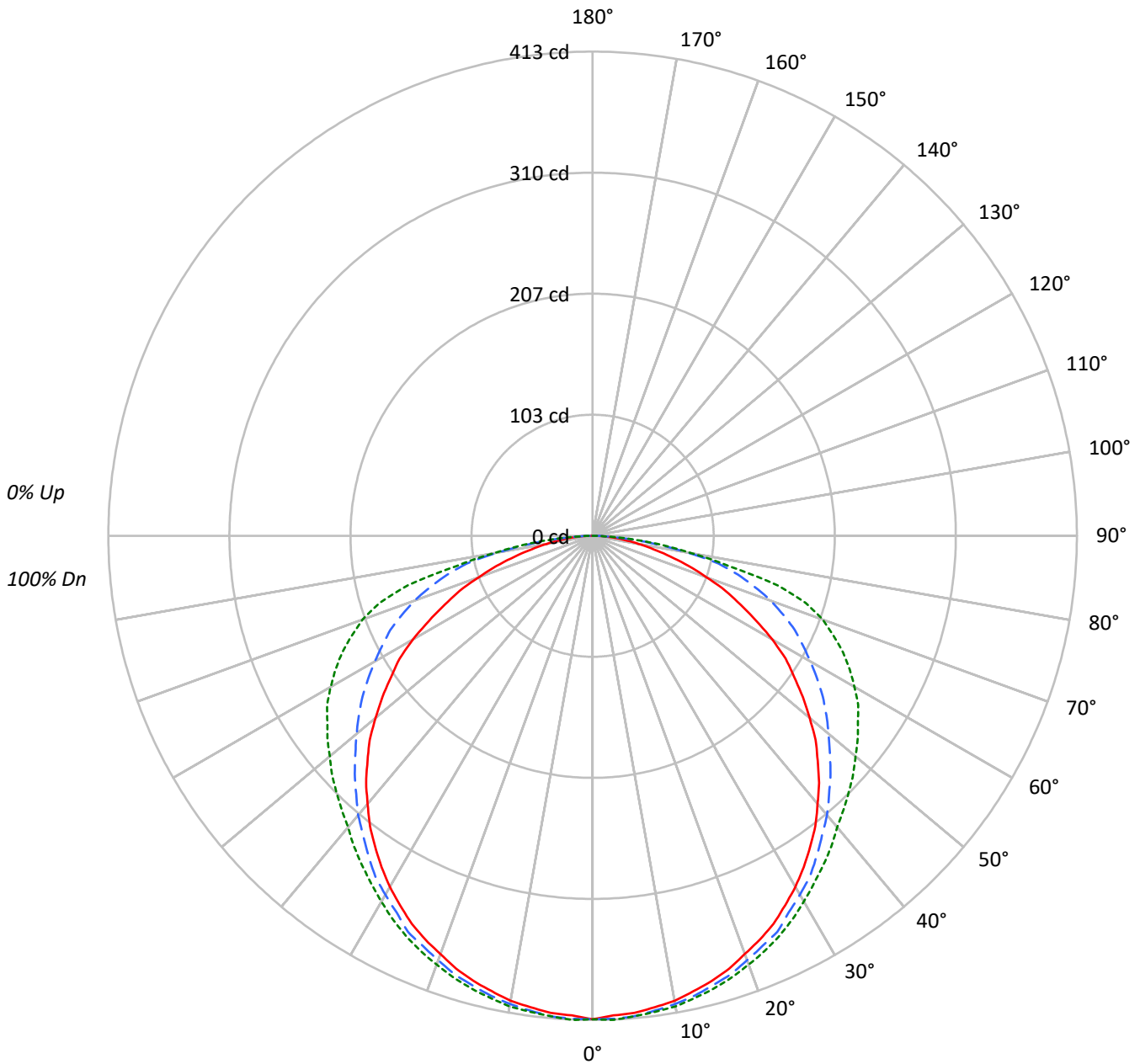
Lumens per Lamp: N/A
Luminaire Lumens: 1313.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
Input Voltage (V): NR
Input Current (Ain): 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	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82																			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67																			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55																			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47																			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35																			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31																			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27																			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1170	1170	1170
5°	1164	1172	1172
10°	1160	1169	1174
15°	1155	1166	1174
20°	1146	1163	1175
25°	1143	1167	1179
30°	1133	1158	1181
35°	1121	1154	1188
40°	1106	1152	1202
45°	1089	1151	1240
50°	1066	1160	1292
55°	1037	1185	1366
60°	1003	1217	1464
65°	933	1278	1583
70°	857	1339	1731
75°	752	1408	1790
80°	647	1340	1405
85°	566	973	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	3.0
10°-20°	112.0	8.5
20°-30°	170.9	13.0
30°-40°	208.7	15.9
40°-50°	223.1	17.0
50°-60°	215.4	16.4
60°-70°	185.4	14.1
70°-80°	125.4	9.6
80°-90°	33.1	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°	321.9	24.5
0°-40°	530.6	40.4
0°-60°	969.0	73.8
0°-90°	1313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	412	412	412	412	412	
5°	408	410	411	411	411	39
15°	393	394	397	399	400	111
25°	365	367	373	375	377	168
35°	324	326	333	340	343	202
45°	271	276	287	301	309	210
55°	210	216	240	264	276	188
65°	139	153	190	220	236	138
75°	69	91	128	155	163	74
85°	17	24	30	31	33	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	412.4	412.4	412.4	412.4	412.4
2.5°	409.5	410.4	412.4	412.4	413.3
5°	408.5	409.5	411.4	411.4	411.4
7.5°	405.6	406.6	408.5	409.5	409.5
10°	402.7	403.7	405.6	406.6	407.6
12.5°	397.9	398.8	401.7	403.7	403.7
15°	393.1	394.0	396.9	398.8	399.8
17.5°	387.2	389.2	392.1	394.0	395.0
20°	379.6	381.5	385.3	388.3	389.2
22.5°	372.8	374.8	378.6	381.5	383.4
25°	365.1	367.0	372.8	374.8	376.7
27.5°	355.4	357.4	362.2	366.0	368.9
30°	345.8	347.7	353.5	358.4	360.3
32.5°	335.1	338.0	344.8	348.7	351.5
35°	323.5	326.4	333.2	339.9	342.9
37.5°	312.0	314.9	321.6	330.3	334.2
40°	298.5	302.3	311.0	322.6	324.5
42.5°	285.9	290.7	298.5	312.0	316.8
45°	271.4	276.2	286.9	301.4	309.0
47.5°	257.9	262.7	274.3	291.7	301.4
50°	241.5	248.2	262.7	283.0	292.6
52.5°	226.0	231.8	251.2	273.3	285.0
55°	209.6	216.4	239.6	263.7	276.2
57.5°	195.2	200.9	227.0	254.1	268.5
60°	176.8	184.5	214.4	243.4	257.9
62.5°	157.4	169.1	201.9	231.8	247.2
65°	139.0	152.6	190.4	220.2	235.7
67.5°	122.6	137.1	175.9	207.7	222.2
70°	103.3	121.7	161.4	192.3	208.7
72.5°	86.0	106.2	145.0	175.9	190.4
75°	68.6	90.8	128.4	154.6	163.3
77.5°	53.1	74.4	110.0	117.8	118.8
80°	39.6	58.9	82.0	83.0	86.0
82.5°	27.1	41.5	53.1	57.9	58.9
85°	17.4	24.2	29.9	30.9	32.8
87.5°	7.8	8.7	10.6	9.7	9.7
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)