

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: P881050

Luminaire Tested: **22CZ2-20VHE-RDP-UNV-B35**

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: P881050
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-B35
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

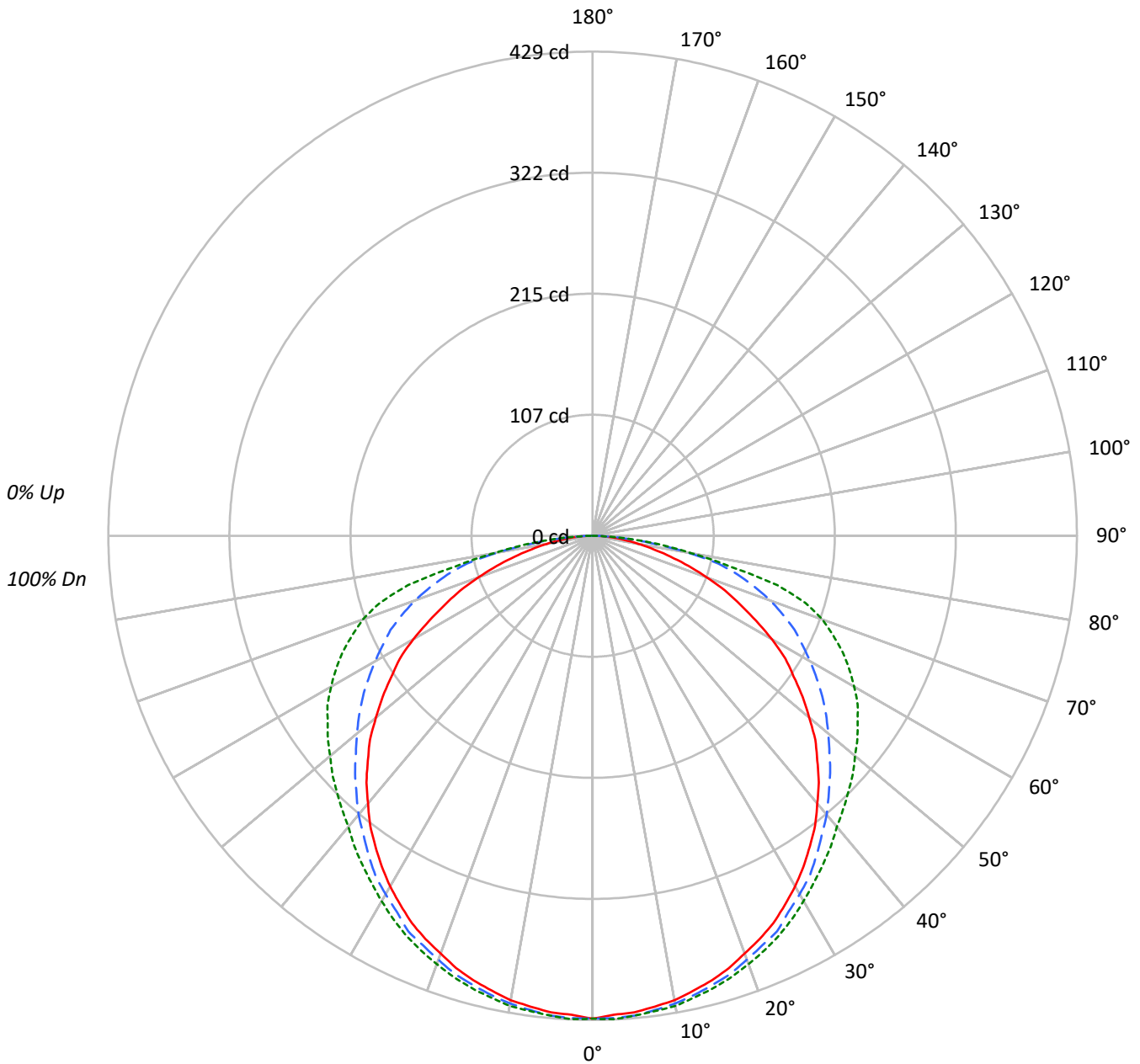
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1362.0 lumens
Efficiency: N/A
Efficacy: 85.1 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°	1214	1214	1214
5°	1207	1216	1216
10°	1204	1212	1219
15°	1198	1210	1219
20°	1189	1207	1219
25°	1186	1211	1224
30°	1175	1201	1225
35°	1163	1198	1232
40°	1147	1195	1247
45°	1130	1194	1286
50°	1106	1203	1340
55°	1075	1229	1417
60°	1041	1262	1518
65°	968	1326	1642
70°	889	1389	1796
75°	781	1460	1856
80°	672	1391	1458
85°	589	1009	1107



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	3.0
10°-20°	116.2	8.5
20°-30°	177.3	13.0
30°-40°	216.5	15.9
40°-50°	231.4	17.0
50°-60°	223.4	16.4
60°-70°	192.3	14.1
70°-80°	130.1	9.6
80°-90°	34.3	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°	333.9	24.5
0°-40°	550.4	40.4
0°-60°	1005.2	73.8
0°-90°	1362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	428	428	428	428	428	
5°	424	425	427	427	427	40
15°	408	409	412	414	415	115
25°	379	381	387	389	391	174
35°	336	339	346	353	356	210
45°	282	286	298	313	320	217
55°	217	224	248	274	286	195
65°	144	158	198	228	244	143
75°	71	94	133	160	169	76
85°	18	25	31	32	34	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	427.8	427.8	427.8	427.8	427.8
2.5°	424.8	425.8	427.8	427.8	428.8
5°	423.8	424.8	426.8	426.8	426.8
7.5°	420.8	421.8	423.8	424.8	424.8
10°	417.8	418.8	420.8	421.8	422.9
12.5°	412.8	413.7	416.7	418.8	418.8
15°	407.8	408.7	411.8	413.7	414.8
17.5°	401.7	403.8	406.8	408.7	409.8
20°	393.8	395.8	399.7	402.8	403.8
22.5°	386.7	388.8	392.8	395.8	397.7
25°	378.8	380.7	386.7	388.8	390.8
27.5°	368.7	370.8	375.7	379.7	382.7
30°	358.7	360.7	366.7	371.8	373.8
32.5°	347.6	350.6	357.7	361.7	364.6
35°	335.6	338.6	345.7	352.6	355.7
37.5°	323.7	326.7	333.6	342.6	346.7
40°	309.6	313.6	322.6	334.7	336.6
42.5°	296.6	301.5	309.6	323.7	328.6
45°	281.5	286.5	297.6	312.7	320.5
47.5°	267.5	272.5	284.5	302.6	312.7
50°	250.5	257.4	272.5	293.6	303.5
52.5°	234.4	240.4	260.6	283.5	295.6
55°	217.4	224.4	248.5	273.5	286.5
57.5°	202.5	208.4	235.4	263.6	278.5
60°	183.4	191.3	222.4	252.5	267.5
62.5°	163.2	175.4	209.4	240.4	256.4
65°	144.2	158.2	197.5	228.4	244.5
67.5°	127.2	142.3	182.4	215.4	230.5
70°	107.2	126.3	167.4	199.4	216.5
72.5°	89.2	110.2	150.4	182.4	197.5
75°	71.2	94.2	133.2	160.3	169.3
77.5°	55.1	77.2	114.1	122.2	123.3
80°	41.1	61.1	85.1	86.1	89.2
82.5°	28.1	43.1	55.1	60.1	61.1
85°	18.1	25.1	31.0	32.1	34.0
87.5°	8.1	9.0	11.0	10.1	10.1
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)