

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: P881065

Luminaire Tested: **22CZ2-24VHE-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: P881065
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: 22CZ2-24VHE-RDP-UNV-B35
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

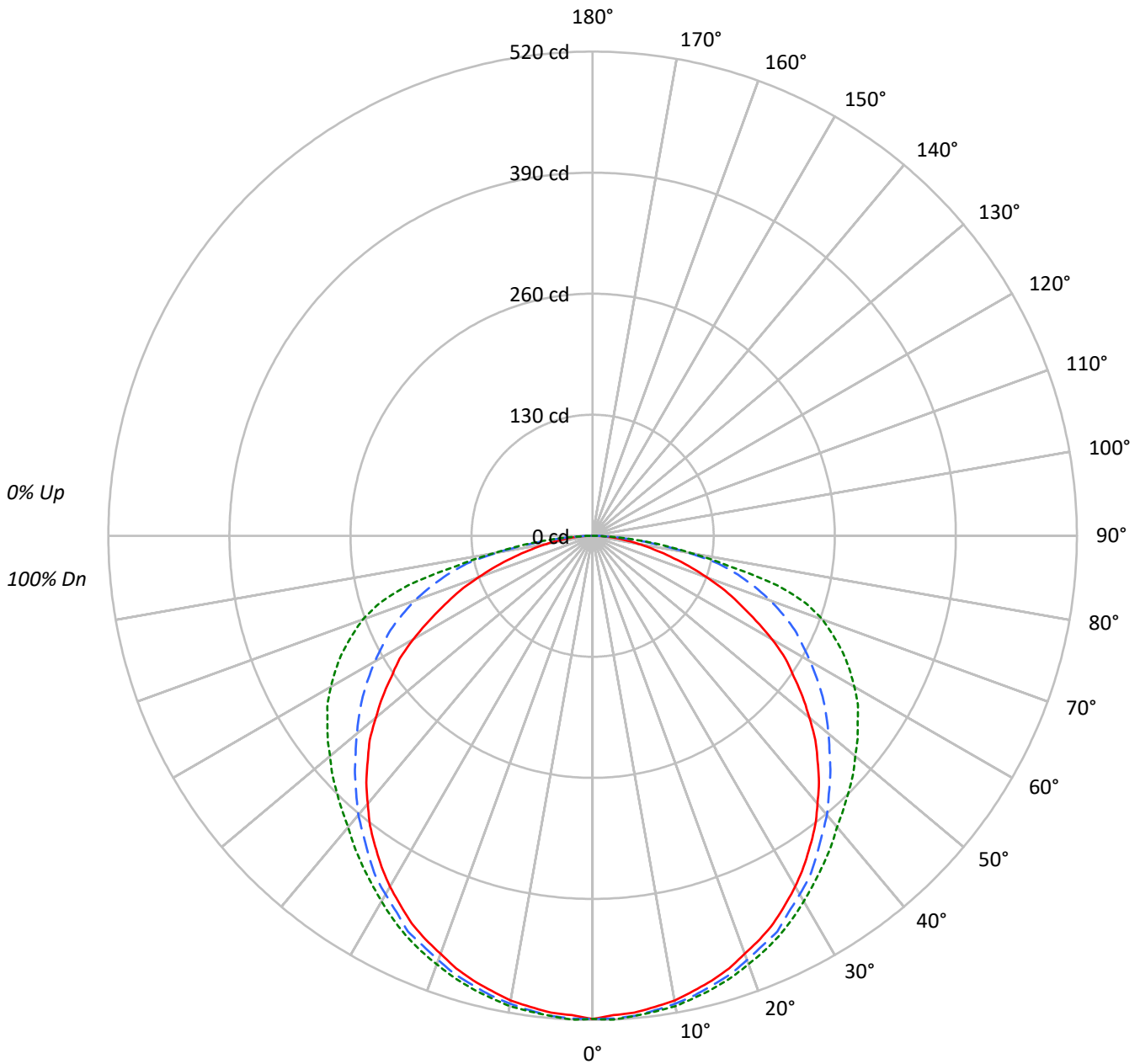
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1652.0 lumens
Efficiency: N/A
Efficacy: 82.6 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): 20
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	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°	1472	1472	1472
5°	1464	1475	1475
10°	1460	1471	1478
15°	1453	1467	1478
20°	1442	1464	1479
25°	1438	1469	1484
30°	1426	1457	1486
35°	1410	1452	1495
40°	1391	1449	1512
45°	1370	1449	1560
50°	1341	1459	1625
55°	1305	1491	1719
60°	1262	1531	1842
65°	1174	1608	1991
70°	1079	1684	2178
75°	946	1772	2252
80°	814	1686	1768
85°	713	1224	1345



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	3.0
10°-20°	140.9	8.5
20°-30°	215.0	13.0
30°-40°	262.5	15.9
40°-50°	280.7	17.0
50°-60°	271.0	16.4
60°-70°	233.2	14.1
70°-80°	157.8	9.6
80°-90°	41.6	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°	405.0	24.5
0°-40°	667.6	40.4
0°-60°	1219.3	73.8
0°-90°	1652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	519	519	519	519	519	
5°	514	515	518	518	518	49
15°	495	496	499	502	503	140
25°	459	462	469	472	474	211
35°	407	411	419	428	432	255
45°	342	348	361	379	389	264
55°	264	272	301	332	348	236
65°	175	192	240	277	296	174
75°	86	114	162	194	205	93
85°	22	30	38	39	41	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	518.9	518.9	518.9	518.9	518.9
2.5°	515.3	516.4	518.9	518.9	520.1
5°	514.0	515.3	517.7	517.7	517.7
7.5°	510.4	511.6	514.0	515.3	515.3
10°	506.7	508.0	510.4	511.6	512.9
12.5°	500.7	501.8	505.5	508.0	508.0
15°	494.6	495.8	499.4	501.8	503.1
17.5°	487.2	489.7	493.4	495.8	497.0
20°	477.6	480.0	484.8	488.6	489.7
22.5°	469.1	471.6	476.4	480.0	482.4
25°	459.4	461.8	469.1	471.6	474.0
27.5°	447.2	449.7	455.7	460.5	464.2
30°	435.1	437.5	444.8	451.0	453.4
32.5°	421.6	425.3	433.8	438.8	442.3
35°	407.0	410.7	419.2	427.7	431.5
37.5°	392.6	396.2	404.6	415.6	420.5
40°	375.6	380.4	391.3	405.9	408.3
42.5°	359.7	365.8	375.6	392.6	398.6
45°	341.5	347.5	361.0	379.2	388.8
47.5°	324.5	330.5	345.1	367.0	379.2
50°	303.8	312.3	330.5	356.1	368.1
52.5°	284.3	291.6	316.0	343.9	358.6
55°	263.7	272.2	301.4	331.8	347.5
57.5°	245.6	252.7	285.6	319.7	337.8
60°	222.4	232.1	269.7	306.2	324.5
62.5°	198.0	212.7	254.0	291.6	311.0
65°	174.9	191.9	239.5	277.0	296.5
67.5°	154.3	172.6	221.3	261.3	279.5
70°	130.0	153.2	203.0	241.9	262.5
72.5°	108.2	133.7	182.4	221.3	239.5
75°	86.3	114.3	161.6	194.5	205.4
77.5°	66.8	93.6	138.4	148.3	149.5
80°	49.8	74.1	103.2	104.5	108.2
82.5°	34.1	52.2	66.8	72.9	74.1
85°	21.9	30.5	37.6	38.9	41.3
87.5°	9.8	11.0	13.3	12.2	12.2
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)