

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: P881066

Luminaire Tested: **22CZ2-24VHE-RDP-UNV-B40**

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: P881066
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-B40
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

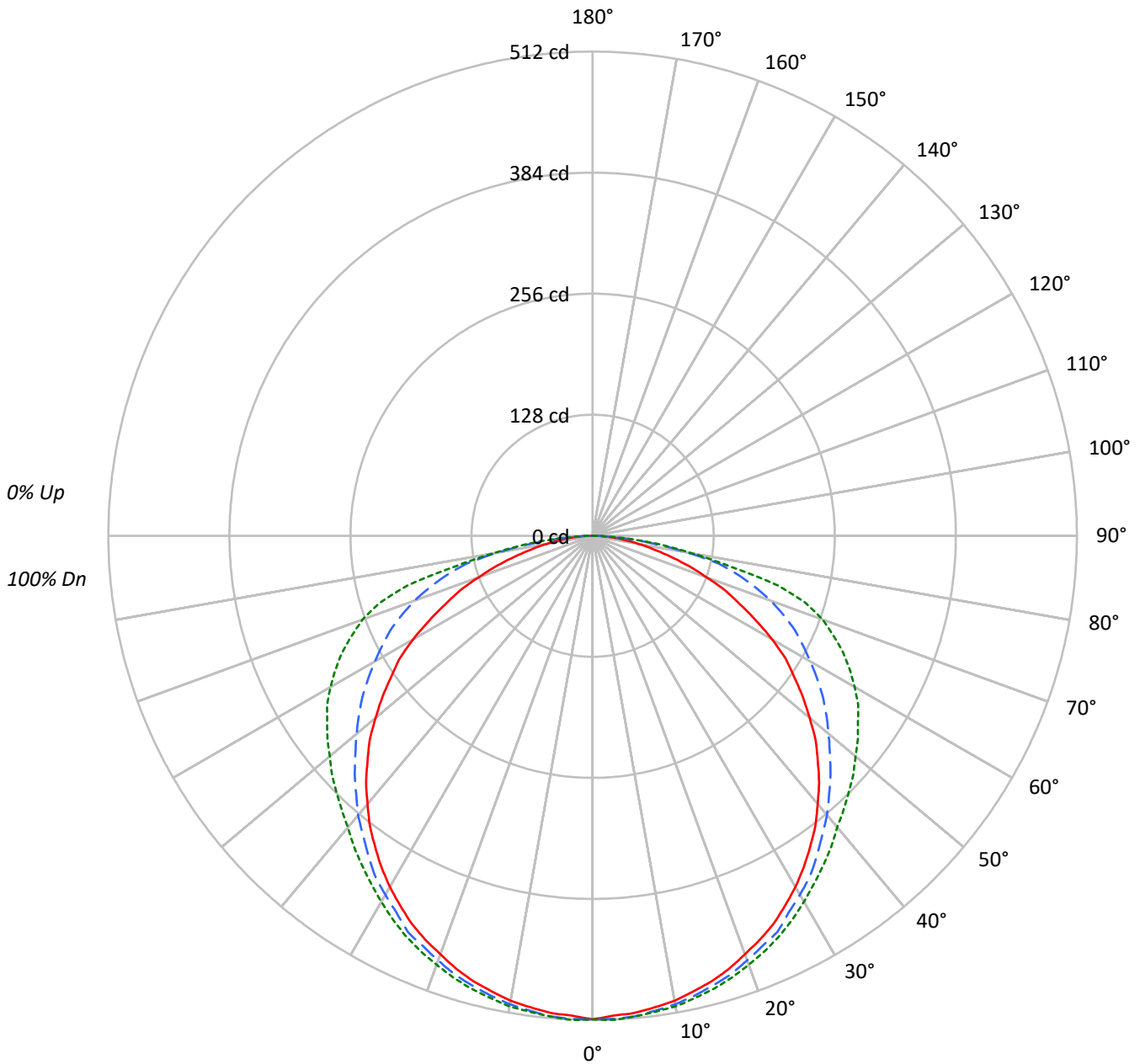
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1628.0 lumens
Efficiency: N/A
Efficacy: 81.4 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 (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°	1451	1451	1451
5°	1443	1453	1453
10°	1439	1449	1456
15°	1432	1446	1456
20°	1421	1443	1457
25°	1417	1447	1462
30°	1405	1436	1464
35°	1389	1431	1473
40°	1371	1428	1491
45°	1350	1427	1537
50°	1322	1438	1602
55°	1286	1470	1694
60°	1244	1508	1815
65°	1158	1585	1962
70°	1063	1660	2146
75°	933	1746	2219
80°	802	1662	1744
85°	703	1208	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	3.0
10°-20°	138.9	8.5
20°-30°	211.9	13.0
30°-40°	258.7	15.9
40°-50°	276.6	17.0
50°-60°	267.0	16.4
60°-70°	229.9	14.1
70°-80°	155.5	9.6
80°-90°	41.0	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°	399.2	24.5
0°-40°	657.9	40.4
0°-60°	1201.6	73.8
0°-90°	1628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	511	511	511	511	511	
5°	507	508	510	510	510	48
15°	488	489	492	494	496	138
25°	453	455	462	465	467	208
35°	401	405	413	422	425	251
45°	336	342	356	374	383	260
55°	260	268	297	327	342	233
65°	172	189	236	273	292	171
75°	85	113	159	192	202	91
85°	22	30	37	38	41	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	511.4	511.4	511.4	511.4	511.4
2.5°	507.8	508.9	511.4	511.4	512.5
5°	506.6	507.8	510.2	510.2	510.2
7.5°	503.0	504.2	506.6	507.8	507.8
10°	499.4	500.6	503.0	504.2	505.4
12.5°	493.4	494.5	498.1	500.6	500.6
15°	487.5	488.6	492.2	494.5	495.8
17.5°	480.1	482.6	486.2	488.6	489.8
20°	470.7	473.1	477.8	481.5	482.6
22.5°	462.3	464.8	469.5	473.1	475.4
25°	452.7	455.1	462.3	464.8	467.1
27.5°	440.7	443.2	449.1	453.8	457.4
30°	428.8	431.1	438.3	444.4	446.8
32.5°	415.5	419.1	427.5	432.4	435.9
35°	401.1	404.7	413.2	421.5	425.2
37.5°	386.9	390.5	398.8	409.6	414.4
40°	370.1	374.8	385.6	400.0	402.4
42.5°	354.5	360.4	370.1	386.9	392.8
45°	336.5	342.5	355.7	373.7	383.1
47.5°	319.8	325.7	340.1	361.7	373.7
50°	299.4	307.7	325.7	350.9	362.8
52.5°	280.2	287.4	311.4	338.9	353.4
55°	259.9	268.3	297.1	327.0	342.5
57.5°	242.0	249.1	281.4	315.0	332.9
60°	219.2	228.7	265.8	301.8	319.8
62.5°	195.1	209.6	250.3	287.4	306.5
65°	172.4	189.2	236.0	273.0	292.2
67.5°	152.1	170.1	218.1	257.5	275.5
70°	128.1	150.9	200.1	238.4	258.7
72.5°	106.7	131.7	179.7	218.1	236.0
75°	85.1	112.6	159.3	191.6	202.4
77.5°	65.9	92.3	136.4	146.1	147.4
80°	49.1	73.1	101.7	102.9	106.7
82.5°	33.6	51.5	65.9	71.8	73.1
85°	21.6	30.0	37.1	38.3	40.7
87.5°	9.7	10.8	13.1	12.0	12.0
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)