

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: P881097

Luminaire Tested: **22CZ2-34VHE-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: P881097
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: 22CZ2-34VHE-RDP-UNV-B50
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

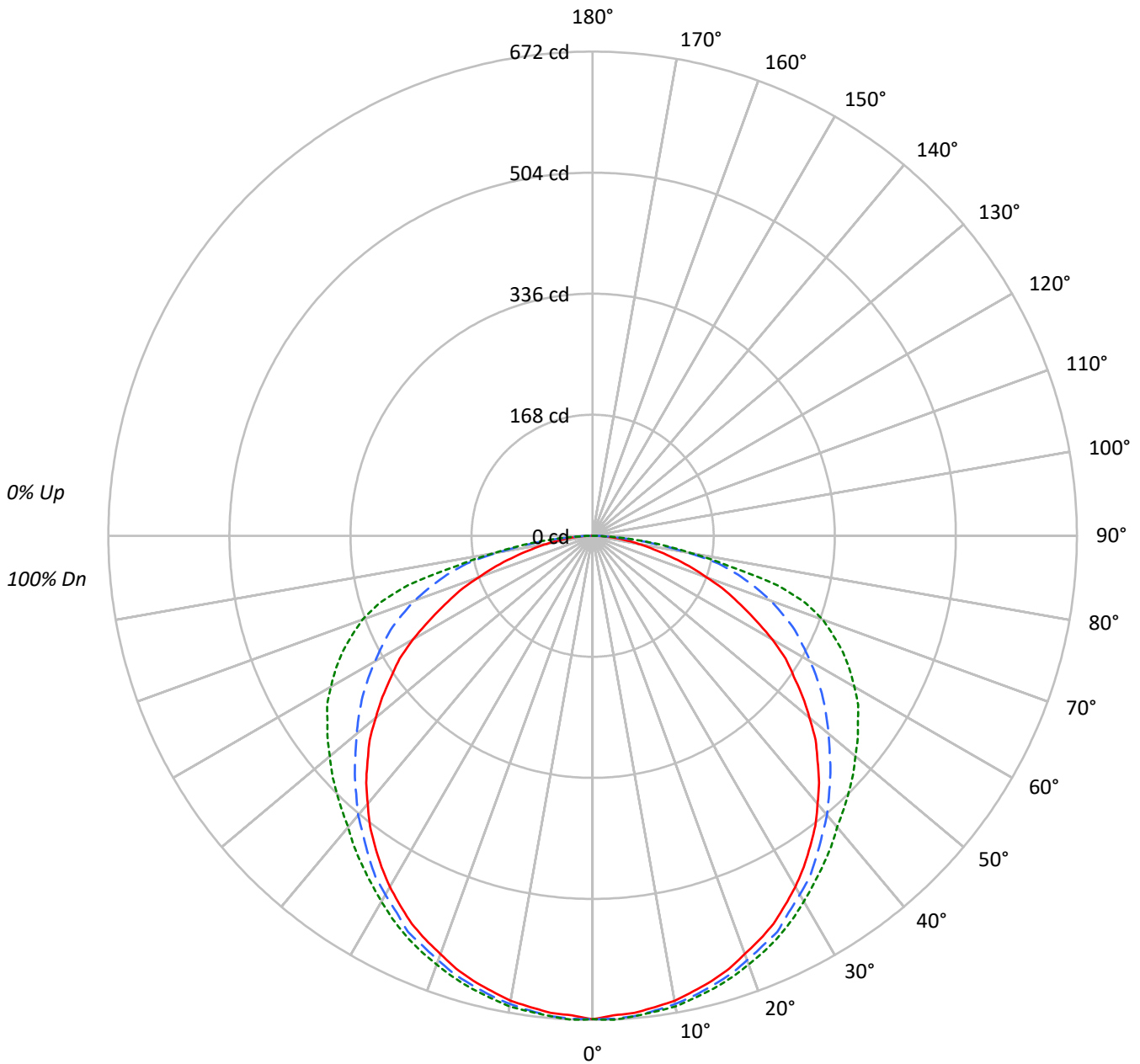
Lumens per Lamp: N/A
Luminaire Lumens: 2136.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27
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°	1904	1904	1904
5°	1893	1906	1906
10°	1888	1901	1911
15°	1879	1897	1911
20°	1865	1893	1912
25°	1860	1899	1919
30°	1843	1884	1921
35°	1823	1878	1933
40°	1799	1874	1955
45°	1772	1873	2017
50°	1734	1886	2101
55°	1686	1928	2223
60°	1632	1979	2381
65°	1519	2079	2574
70°	1395	2178	2817
75°	1224	2291	2912
80°	1052	2180	2288
85°	921	1586	1739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	3.0
10°-20°	182.2	8.5
20°-30°	278.0	13.0
30°-40°	339.5	15.9
40°-50°	363.0	17.0
50°-60°	350.3	16.4
60°-70°	301.6	14.1
70°-80°	204.1	9.6
80°-90°	53.9	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°	523.7	24.5
0°-40°	863.2	40.4
0°-60°	1576.5	73.8
0°-90°	2136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	665	666	669	669	669	63
15°	640	641	646	649	650	180
25°	594	597	606	610	613	273
35°	526	531	542	553	558	329
45°	442	449	467	490	503	341
55°	341	352	390	429	449	306
65°	226	248	310	358	383	225
75°	112	148	209	251	266	120
85°	28	39	49	50	53	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	671.0	671.0	671.0	671.0	671.0
2.5°	666.2	667.7	671.0	671.0	672.4
5°	664.6	666.2	669.3	669.3	669.3
7.5°	659.9	661.5	664.6	666.2	666.2
10°	655.2	656.8	659.9	661.5	663.2
12.5°	647.4	648.8	653.6	656.8	656.8
15°	639.6	641.0	645.7	648.8	650.5
17.5°	630.0	633.2	637.9	641.0	642.6
20°	617.6	620.7	626.9	631.7	633.2
22.5°	606.5	609.8	616.0	620.7	623.8
25°	594.0	597.1	606.5	609.8	612.9
27.5°	578.2	581.5	589.3	595.5	600.2
30°	562.6	565.7	575.1	583.1	586.2
32.5°	545.2	549.9	561.0	567.3	571.9
35°	526.3	531.0	542.1	553.0	557.9
37.5°	507.6	512.3	523.2	537.4	543.7
40°	485.6	491.8	506.0	524.8	527.9
42.5°	465.1	472.9	485.6	507.6	515.4
45°	441.5	449.3	466.7	490.3	502.7
47.5°	419.5	427.3	446.2	474.5	490.3
50°	392.8	403.8	427.3	460.4	476.0
52.5°	367.6	377.1	408.6	444.6	463.6
55°	340.9	352.0	389.8	429.0	449.3
57.5°	317.5	326.8	369.3	413.4	436.8
60°	287.6	300.1	348.7	395.9	419.5
62.5°	256.0	275.0	328.4	377.1	402.1
65°	226.2	248.2	309.7	358.2	383.4
67.5°	199.5	223.1	286.1	337.8	361.4
70°	168.1	198.1	262.5	312.8	339.5
72.5°	140.0	172.8	235.8	286.1	309.7
75°	111.6	147.8	209.0	251.4	265.6
77.5°	86.4	121.1	179.0	191.7	193.3
80°	64.4	95.9	133.4	135.1	140.0
82.5°	44.1	67.5	86.4	94.2	95.9
85°	28.3	39.4	48.7	50.3	53.4
87.5°	12.7	14.2	17.3	15.8	15.8
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)