

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: P881096

Luminaire Tested: **22CZ2-34VHE-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: P881096
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-B40
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

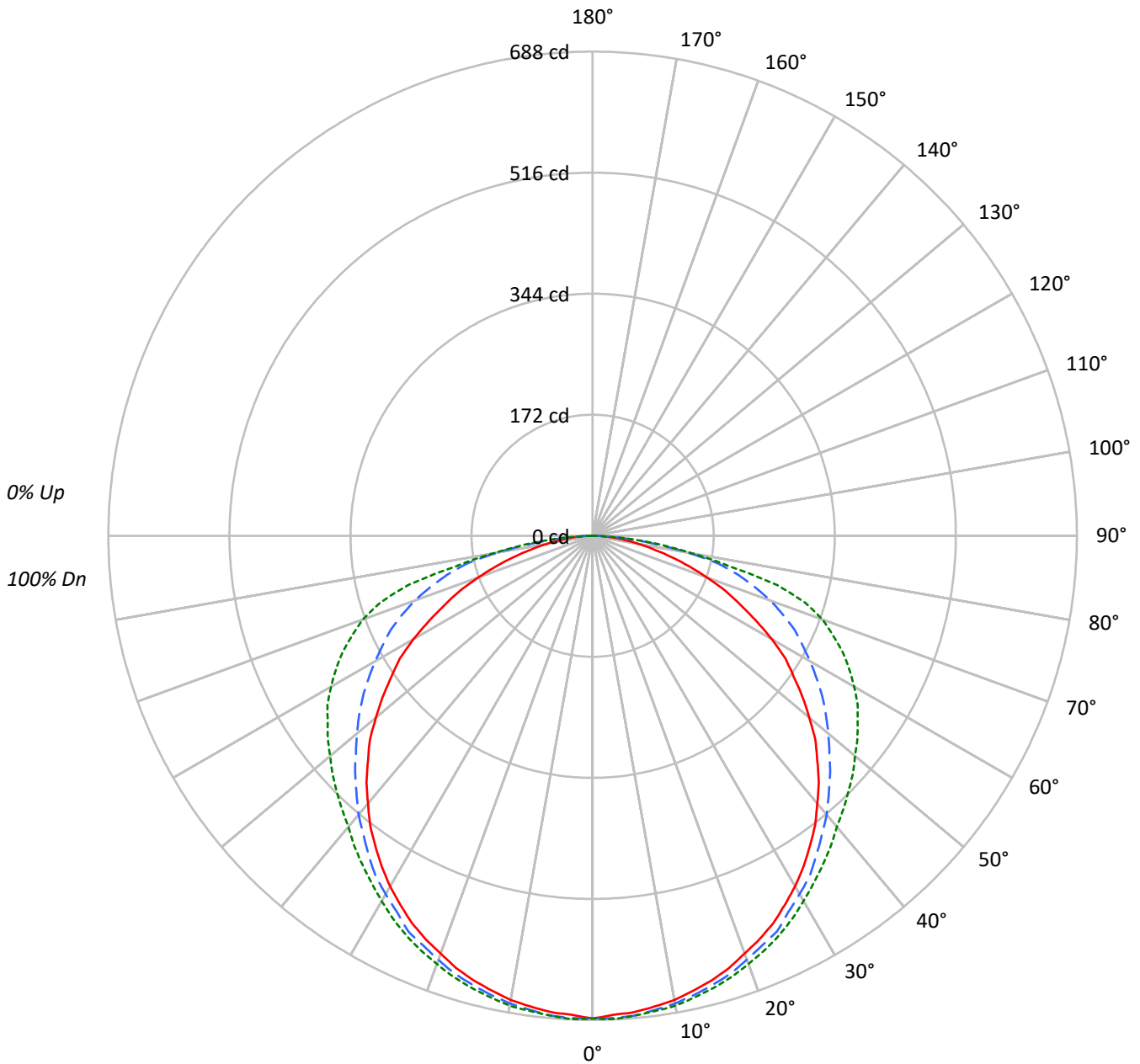
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2184.0 lumens
Efficiency: N/A
Efficacy: 80.9 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

TEST NUMBER: P881096
CATALOG NUMBER: 22CZ2-34VHE-RDP-UNV-B40

Luminous Intensity Polar Plot





TEST NUMBER: P881096

CATALOG NUMBER: 22CZ2-34VHE-RDP-UNV-B40

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°	1947	1947	1947
5°	1936	1949	1949
10°	1930	1944	1954
15°	1921	1940	1954
20°	1907	1936	1955
25°	1901	1942	1962
30°	1885	1927	1964
35°	1864	1920	1976
40°	1839	1916	1999
45°	1811	1915	2063
50°	1773	1929	2148
55°	1725	1971	2273
60°	1668	2024	2435
65°	1553	2126	2632
70°	1426	2227	2880
75°	1251	2343	2978
80°	1077	2229	2338
85°	944	1621	1778



TEST NUMBER: P881096

CATALOG NUMBER: 22CZ2-34VHE-RDP-UNV-B40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	3.0
10°-20°	186.3	8.5
20°-30°	284.3	13.0
30°-40°	347.1	15.9
40°-50°	371.1	17.0
50°-60°	358.2	16.4
60°-70°	308.4	14.1
70°-80°	208.7	9.6
80°-90°	55.1	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°	535.5	24.5
0°-40°	882.6	40.4
0°-60°	1611.9	73.8
0°-90°	2184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	686	686	686	686	686	
5°	680	681	684	684	684	65
15°	654	655	660	663	665	184
25°	607	610	620	624	627	279
35°	538	543	554	565	570	337
45°	451	459	477	501	514	348
55°	349	360	398	439	459	312
65°	231	254	317	366	392	230
75°	114	151	214	257	272	122
85°	29	40	50	51	55	33
90°	0	0	0	0	0	



TEST NUMBER: P881096

CATALOG NUMBER: 22CZ2-34VHE-RDP-UNV-B40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	686.0	686.0	686.0	686.0	<i>686.0</i>
2.5°	<i>681.2</i>	<i>682.7</i>	<i>686.0</i>	<i>686.0</i>	<i>687.5</i>
5°	679.6	681.2	684.4	684.4	<i>684.4</i>
7.5°	674.7	676.4	679.6	681.2	<i>681.2</i>
10°	669.9	671.6	674.7	676.4	<i>678.1</i>
12.5°	661.9	663.4	668.2	671.6	<i>671.6</i>
15°	653.9	655.4	660.3	663.4	<i>665.1</i>
17.5°	644.1	647.4	652.3	655.4	<i>657.1</i>
20°	631.5	634.6	641.0	645.9	<i>647.4</i>
22.5°	620.2	623.5	629.8	634.6	<i>637.8</i>
25°	607.3	610.5	620.2	623.5	<i>626.6</i>
27.5°	591.2	594.5	602.5	608.8	<i>613.7</i>
30°	575.2	578.4	588.0	596.2	<i>599.4</i>
32.5°	557.4	562.2	573.6	580.1	<i>584.7</i>
35°	538.1	542.9	554.3	565.4	<i>570.4</i>
37.5°	519.0	523.8	535.0	549.4	<i>555.9</i>
40°	496.5	502.8	517.3	536.6	<i>539.8</i>
42.5°	475.6	483.5	496.5	519.0	<i>527.0</i>
45°	451.4	459.4	477.2	501.3	<i>514.0</i>
47.5°	429.0	437.0	456.3	485.2	<i>501.3</i>
50°	401.7	412.8	437.0	470.7	<i>486.7</i>
52.5°	375.9	385.5	417.8	454.6	<i>474.1</i>
55°	348.6	359.9	398.5	438.6	<i>459.4</i>
57.5°	324.6	334.1	377.5	422.6	<i>446.6</i>
60°	294.0	306.8	356.6	404.8	<i>429.0</i>
62.5°	261.7	281.2	335.8	385.5	<i>411.2</i>
65°	231.3	253.8	316.6	366.2	<i>392.0</i>
67.5°	204.0	228.1	292.5	345.4	<i>369.6</i>
70°	171.9	202.5	268.4	319.8	<i>347.1</i>
72.5°	143.1	176.7	241.1	292.5	<i>316.6</i>
75°	114.1	151.1	213.7	257.1	<i>271.6</i>
77.5°	88.4	123.8	183.0	196.0	<i>197.7</i>
80°	65.9	98.0	136.4	138.1	<i>143.1</i>
82.5°	45.1	69.1	88.4	96.3	<i>98.0</i>
85°	29.0	40.3	49.8	51.4	<i>54.6</i>
87.5°	13.0	14.5	17.6	16.1	<i>16.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)