

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: P881081

Luminaire Tested: **22CZ2-29VHE-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: P881081
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: 22CZ2-29VHE-RDP-UNV-B40
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

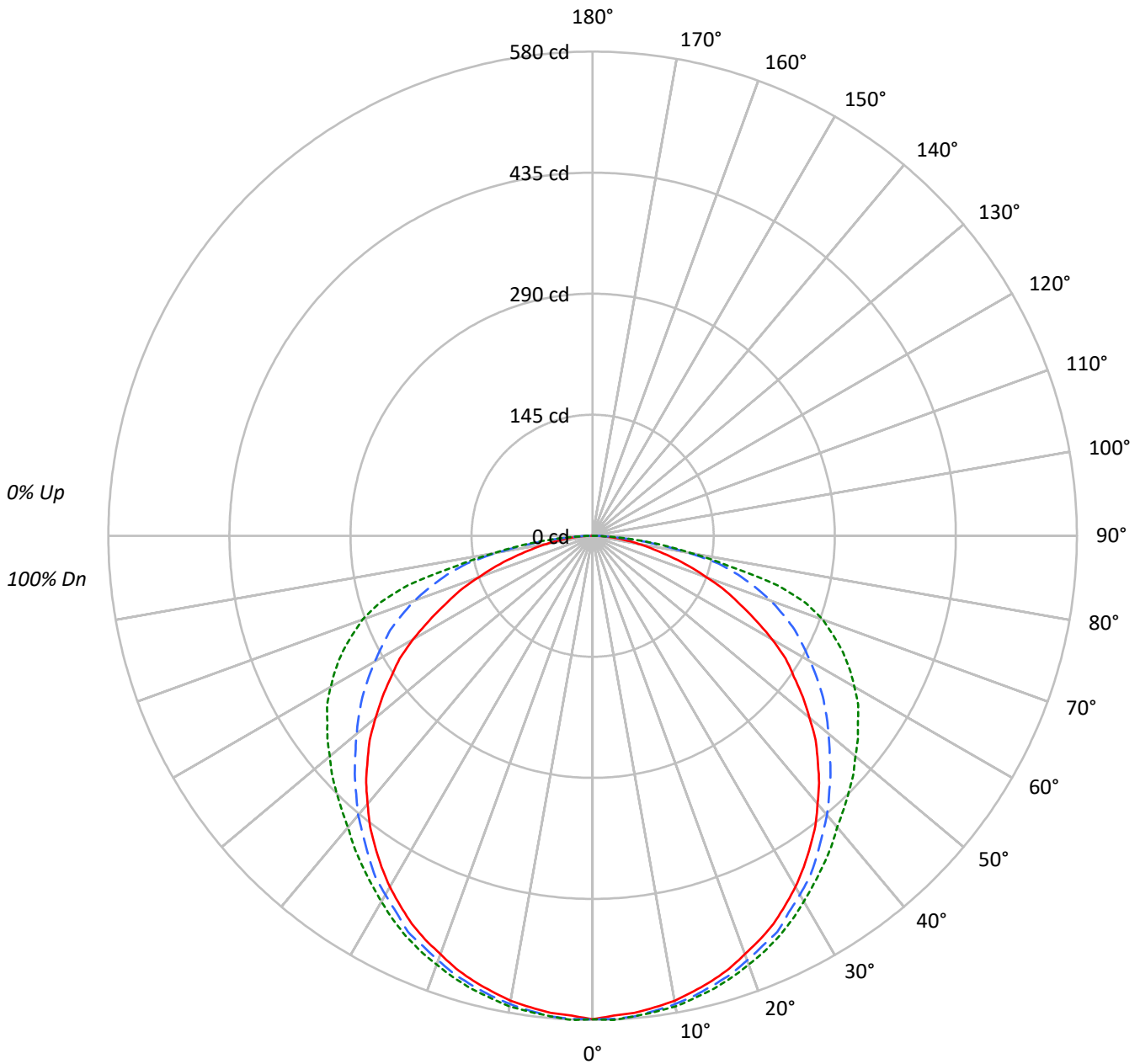
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1844.0 lumens
Efficiency: N/A
Efficacy: 83.8 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): 22
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°	1644	1644	1644
5°	1634	1646	1646
10°	1630	1641	1650
15°	1622	1638	1649
20°	1610	1634	1651
25°	1606	1639	1657
30°	1591	1627	1658
35°	1574	1621	1668
40°	1553	1618	1688
45°	1530	1617	1742
50°	1497	1628	1814
55°	1456	1665	1919
60°	1409	1709	2056
65°	1311	1795	2222
70°	1204	1880	2432
75°	1057	1978	2514
80°	909	1882	1974
85°	794	1367	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	3.0
10°-20°	157.3	8.5
20°-30°	240.0	13.0
30°-40°	293.1	15.9
40°-50°	313.3	17.0
50°-60°	302.5	16.4
60°-70°	260.4	14.1
70°-80°	176.2	9.6
80°-90°	46.5	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°	452.1	24.5
0°-40°	745.2	40.4
0°-60°	1361.0	73.8
0°-90°	1844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	579	579	579	579	579	
5°	574	575	578	578	578	54
15°	552	553	558	560	562	156
25°	513	516	524	526	529	236
35°	454	458	468	477	482	284
45°	381	388	403	423	434	294
55°	294	304	336	370	388	264
65°	195	214	267	309	331	194
75°	96	128	180	217	229	103
85°	24	34	42	43	46	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	579.2	579.2	579.2	579.2	579.2
2.5°	575.2	576.4	579.2	579.2	580.5
5°	573.8	575.2	577.8	577.8	577.8
7.5°	569.7	571.1	573.8	575.2	575.2
10°	565.6	567.0	569.7	571.1	572.5
12.5°	558.9	560.1	564.2	567.0	567.0
15°	552.1	553.4	557.5	560.1	561.5
17.5°	543.8	546.6	550.7	553.4	554.8
20°	533.2	535.8	541.2	545.4	546.6
22.5°	523.6	526.4	531.8	535.8	538.5
25°	512.8	515.5	523.6	526.4	529.1
27.5°	499.2	502.0	508.7	514.1	518.1
30°	485.7	488.3	496.5	503.4	506.0
32.5°	470.6	474.7	484.3	489.7	493.7
35°	454.3	458.4	468.0	477.4	481.6
37.5°	438.2	442.3	451.7	463.9	469.4
40°	419.2	424.6	436.8	453.1	455.8
42.5°	401.5	408.3	419.2	438.2	444.9
45°	381.2	387.9	402.9	423.3	434.0
47.5°	362.2	368.9	385.2	409.7	423.3
50°	339.1	348.6	368.9	397.4	410.9
52.5°	317.4	325.5	352.8	383.8	400.3
55°	294.3	303.9	336.5	370.3	387.9
57.5°	274.1	282.1	318.8	356.8	377.1
60°	248.2	259.1	301.1	341.8	362.2
62.5°	221.0	237.4	283.5	325.5	347.2
65°	195.3	214.2	267.4	309.2	331.0
67.5°	172.2	192.6	247.0	291.7	312.0
70°	145.1	171.0	226.6	270.0	293.1
72.5°	120.8	149.2	203.6	247.0	267.4
75°	96.4	127.6	180.4	217.1	229.3
77.5°	74.6	104.5	154.5	165.5	166.9
80°	55.6	82.7	115.2	116.6	120.8
82.5°	38.1	58.3	74.6	81.3	82.7
85°	24.4	34.0	42.0	43.4	46.1
87.5°	11.0	12.2	14.9	13.6	13.6
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)