

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: P881087

Luminaire Tested: **22CZ2-29VHE-SQR-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: P881087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475230)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29VHE-SQR-UNV-B40
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

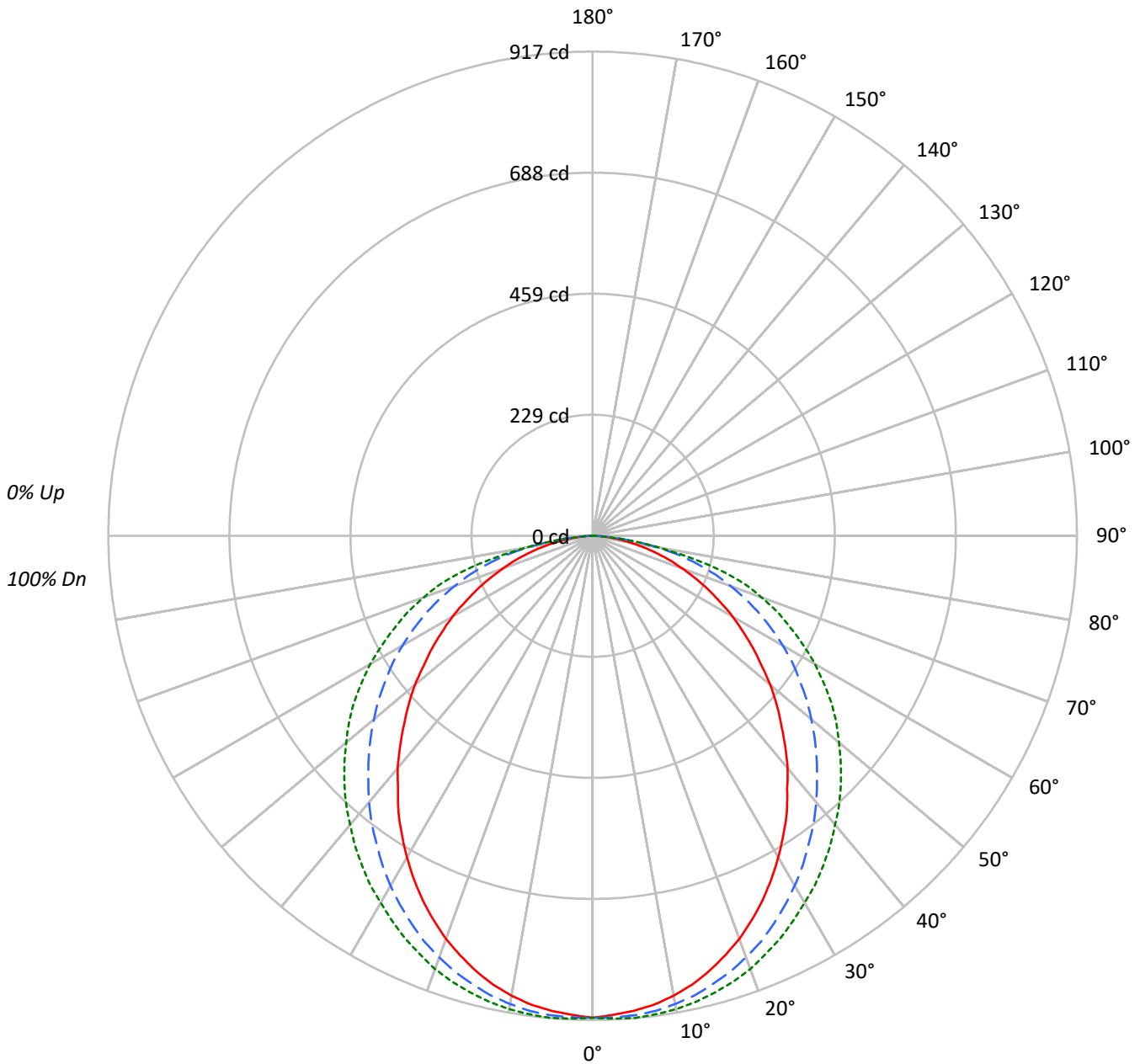
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2613.0 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83																			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2590	2590	2590
5°	2572	2596	2611
10°	2548	2594	2623
15°	2507	2583	2631
20°	2453	2565	2636
25°	2384	2539	2633
30°	2304	2507	2629
35°	2221	2470	2638
40°	2127	2440	2646
45°	2026	2409	2668
50°	1938	2387	2688
55°	1834	2368	2730
60°	1739	2359	2759
65°	1623	2340	2781
70°	1491	2304	2819
75°	1347	2243	2719
80°	1154	1987	2046
85°	928	1169	928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	3.3
10°-20°	247.4	9.5
20°-30°	371.6	14.2
30°-40°	443.2	17.0
40°-50°	458.2	17.5
50°-60°	421.3	16.1
60°-70°	335.4	12.8
70°-80°	204.9	7.8
80°-90°	44.5	1.7
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°	705.6	27.0
0°-40°	1148.7	44.0
0°-60°	2028.2	77.6
0°-90°	2613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	913	913	913	913	913	
5°	903	905	912	915	917	86
15°	853	863	879	892	896	240
25°	762	780	811	833	841	350
35°	641	668	713	750	762	400
45°	505	541	600	649	665	390
55°	371	412	479	533	552	332
65°	242	283	348	397	414	240
75°	123	159	205	240	248	131
85°	28	35	36	31	28	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	912.8	912.8	912.8	912.8	912.8
2.5°	907.9	909.0	912.8	915.3	915.3
5°	902.8	905.3	911.5	915.3	916.6
7.5°	895.5	899.1	907.9	912.8	914.2
10°	884.3	889.3	900.4	907.9	910.2
12.5°	870.6	878.1	891.7	901.7	904.1
15°	853.4	863.2	879.2	891.7	895.5
17.5°	833.4	845.8	865.7	880.6	885.5
20°	812.2	824.7	849.6	866.9	873.0
22.5°	787.5	803.7	832.2	852.1	857.0
25°	761.6	780.1	811.1	833.4	840.9
27.5°	732.9	755.4	788.8	816.2	822.3
30°	703.1	726.7	765.2	795.0	802.4
32.5°	672.1	699.5	740.3	773.9	783.9
35°	641.1	668.5	713.1	750.5	761.6
37.5°	605.1	637.4	687.1	725.6	739.1
40°	574.3	605.1	658.6	700.8	714.4
42.5°	539.4	573.0	628.9	674.6	690.8
45°	504.8	540.7	600.2	648.7	664.8
47.5°	472.5	508.4	570.5	621.4	637.4
50°	439.0	476.2	540.7	592.8	608.9
52.5°	403.1	444.0	510.9	563.0	581.7
55°	370.8	411.7	478.6	533.3	551.9
57.5°	337.2	379.5	449.0	501.1	518.5
60°	306.4	347.2	415.6	466.3	486.2
62.5°	272.8	314.9	381.9	431.6	450.3
65°	241.8	282.8	348.5	396.9	414.2
67.5°	210.7	251.9	313.7	359.7	379.5
70°	179.7	220.9	277.7	322.5	339.8
72.5°	152.6	188.6	243.0	284.0	300.2
75°	122.9	158.8	204.6	240.5	248.0
77.5°	95.5	127.8	166.2	182.2	184.9
80°	70.6	95.5	121.6	125.2	125.2
82.5°	47.0	65.7	75.7	76.8	75.7
85°	28.5	34.7	35.9	31.0	28.5
87.5°	9.8	9.8	6.2	3.7	1.3
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)