

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: P881086

Luminaire Tested: **22CZ2-29VHE-SQR-UNV-B35**

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: P881086
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-B35
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

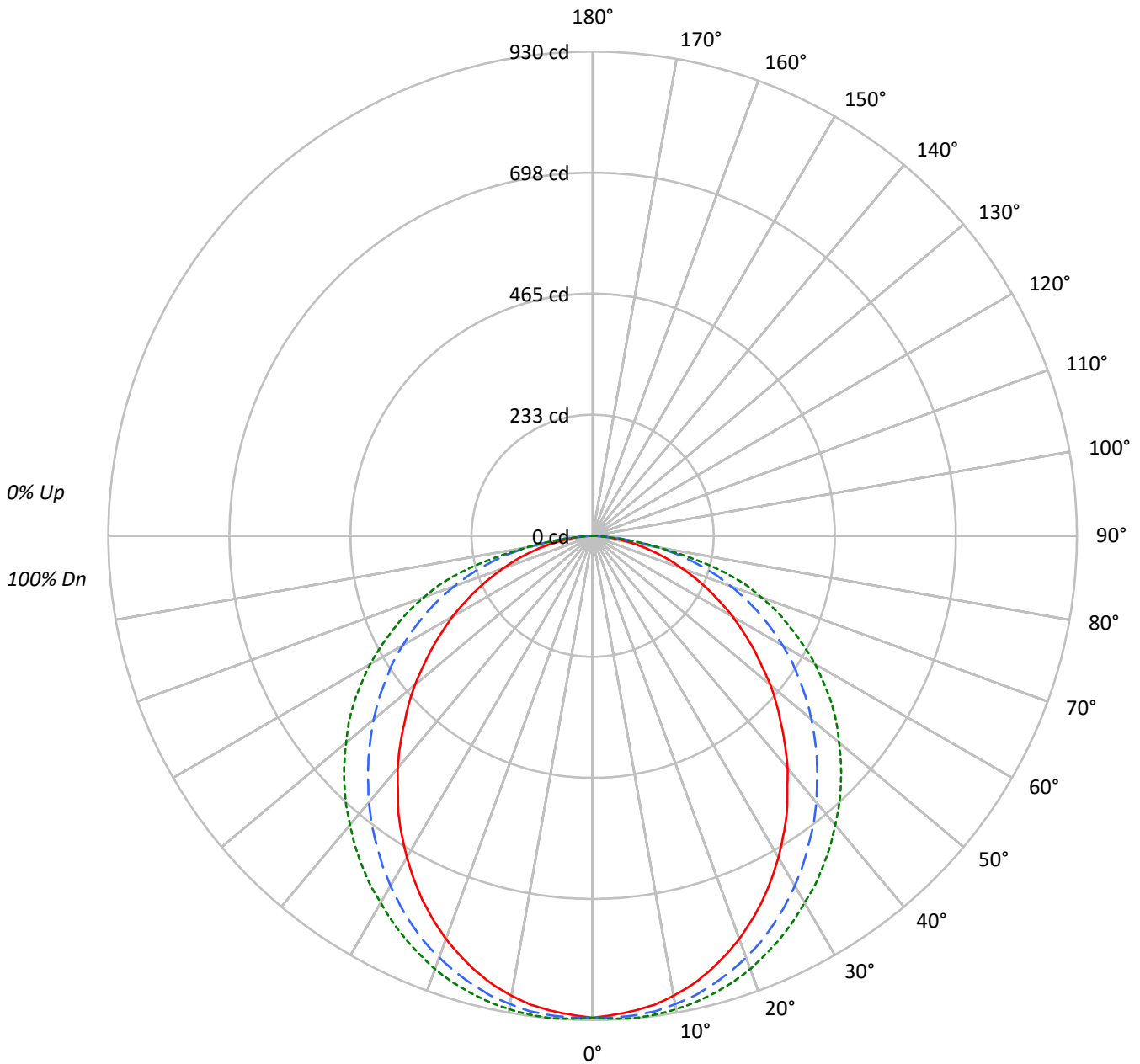
Lumens per Lamp: N/A
Luminaire Lumens: 2651.0 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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°	2628	2628	2628
5°	2609	2634	2649
10°	2585	2632	2661
15°	2543	2620	2669
20°	2488	2603	2674
25°	2419	2576	2671
30°	2337	2544	2667
35°	2253	2506	2676
40°	2158	2475	2685
45°	2055	2444	2707
50°	1966	2422	2727
55°	1861	2402	2770
60°	1764	2393	2800
65°	1647	2374	2821
70°	1512	2338	2860
75°	1366	2275	2758
80°	1172	2016	2077
85°	941	1188	941



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	3.3
10°-20°	251.0	9.5
20°-30°	377.0	14.2
30°-40°	449.6	17.0
40°-50°	464.9	17.5
50°-60°	427.4	16.1
60°-70°	340.2	12.8
70°-80°	207.9	7.8
80°-90°	45.2	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°	715.8	27.0
0°-40°	1165.5	44.0
0°-60°	2057.7	77.6
0°-90°	2651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2651.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	916	918	925	929	930	87
15°	866	876	892	905	908	244
25°	773	791	823	846	853	355
35°	650	678	724	761	773	406
45°	512	549	609	658	674	396
55°	376	418	486	541	560	337
65°	245	287	354	403	420	243
75°	125	161	208	244	252	133
85°	29	35	36	32	29	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	926.0	926.0	926.0	926.0	926.0
2.5°	921.1	922.2	926.0	928.6	928.6
5°	915.9	918.5	924.8	928.6	929.9
7.5°	908.5	912.2	921.1	926.0	927.5
10°	897.1	902.3	913.5	921.1	923.5
12.5°	883.3	890.9	904.7	914.8	917.2
15°	865.8	875.8	892.0	904.7	908.5
17.5°	845.6	858.1	878.3	893.4	898.4
20°	824.0	836.7	861.9	879.5	885.7
22.5°	799.0	815.4	844.3	864.5	869.5
25°	772.6	791.4	822.9	845.6	853.1
27.5°	743.6	766.4	800.3	828.0	834.3
30°	713.4	737.3	776.3	806.5	814.1
32.5°	681.9	709.7	751.1	785.2	795.3
35°	650.4	678.2	723.5	761.4	772.6
37.5°	613.9	646.7	697.1	736.2	749.8
40°	582.6	613.9	668.2	710.9	724.8
42.5°	547.3	581.3	638.0	684.5	700.8
45°	512.1	548.6	609.0	658.1	674.5
47.5°	479.3	515.8	578.8	630.5	646.7
50°	445.4	483.2	548.6	601.4	617.8
52.5°	409.0	450.4	518.4	571.2	590.2
55°	376.2	417.7	485.6	541.0	560.0
57.5°	342.2	385.0	455.5	508.4	526.1
60°	310.8	352.3	421.6	473.1	493.3
62.5°	276.8	319.5	387.5	437.9	456.8
65°	245.3	286.9	353.6	402.7	420.2
67.5°	213.8	255.5	318.2	364.9	385.0
70°	182.3	224.1	281.8	327.2	344.7
72.5°	154.8	191.3	246.6	288.2	304.5
75°	124.6	161.1	207.5	244.0	251.6
77.5°	96.9	129.6	168.7	184.9	187.6
80°	71.7	96.9	123.4	127.1	127.1
82.5°	47.7	66.7	76.8	77.9	76.8
85°	28.9	35.2	36.5	31.5	28.9
87.5°	10.0	10.0	6.3	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)