

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: P880692

Luminaire Tested: **22CZ2-29VHE-SQR-B2750-W2D-2700K**

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: P880692
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-B2750-W2D-2700K
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

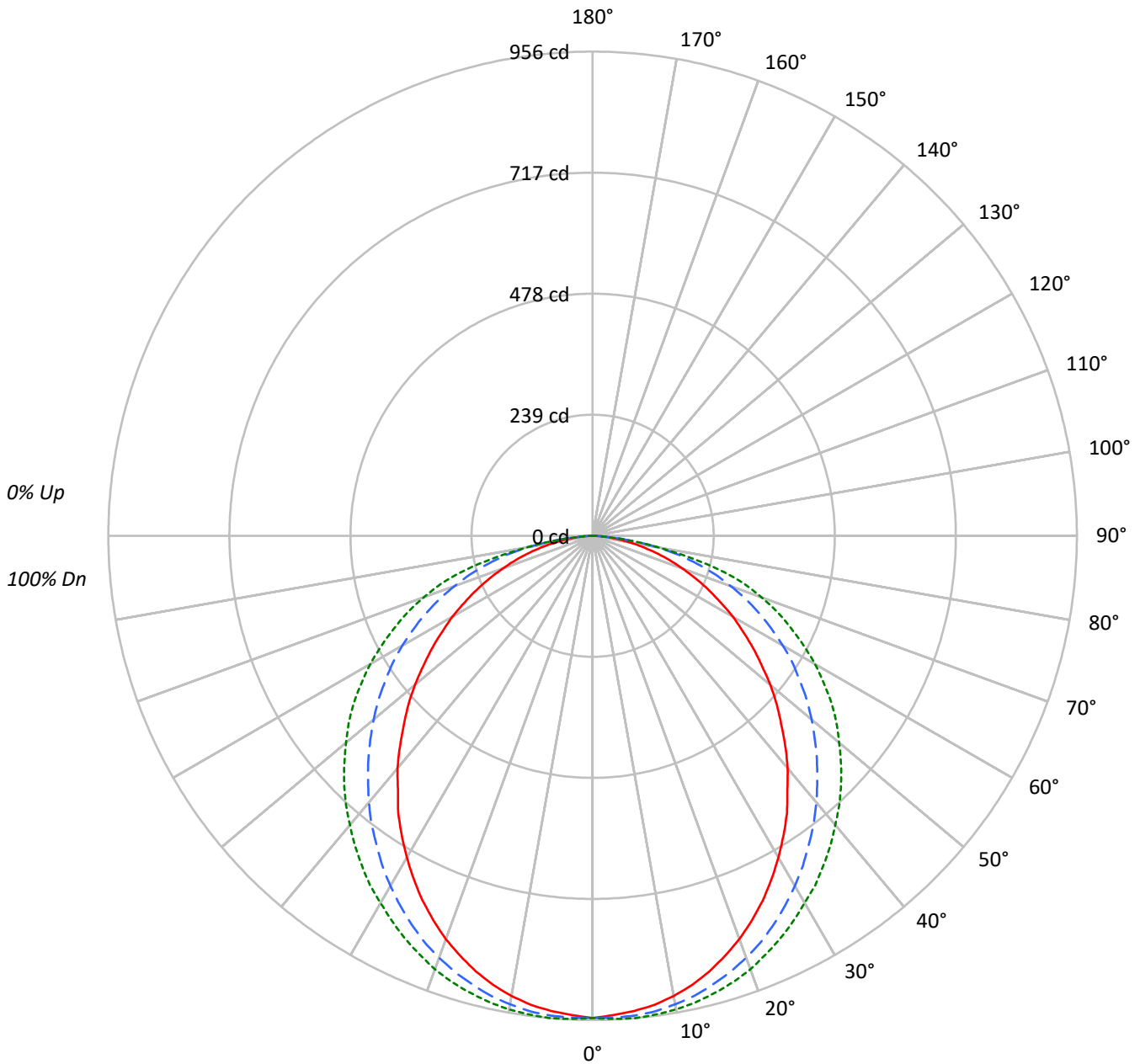
Lumens per Lamp: N/A
Luminaire Lumens: 2726.0 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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°	2702	2702	2702
5°	2683	2709	2724
10°	2658	2706	2736
15°	2615	2694	2744
20°	2559	2676	2750
25°	2487	2649	2746
30°	2403	2616	2743
35°	2317	2577	2752
40°	2219	2545	2761
45°	2113	2513	2783
50°	2022	2490	2804
55°	1914	2470	2849
60°	1814	2461	2878
65°	1693	2441	2901
70°	1556	2403	2941
75°	1406	2340	2836
80°	1204	2072	2136
85°	967	1221	967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	3.3
10°-20°	258.1	9.5
20°-30°	387.7	14.2
30°-40°	462.4	17.0
40°-50°	478.0	17.5
50°-60°	439.5	16.1
60°-70°	349.9	12.8
70°-80°	213.8	7.8
80°-90°	46.4	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°	736.1	27.0
0°-40°	1198.4	44.0
0°-60°	2115.9	77.6
0°-90°	2726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	942	944	951	955	956	89
15°	890	900	917	930	934	251
25°	794	814	846	870	877	365
35°	669	697	744	783	794	417
45°	527	564	626	677	694	407
55°	387	430	499	556	576	346
65°	252	295	364	414	432	250
75°	128	166	213	251	259	136
85°	30	36	38	32	30	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.2	952.2	952.2	952.2	952.2
2.5°	947.1	948.3	952.2	954.9	954.9
5°	941.8	944.5	950.9	954.9	956.2
7.5°	934.2	938.0	947.1	952.2	953.7
10°	922.5	927.8	939.3	947.1	949.6
12.5°	908.3	916.1	930.3	940.7	943.2
15°	890.3	900.5	917.2	930.3	934.2
17.5°	869.5	882.4	903.2	918.7	923.8
20°	847.4	860.4	886.3	904.3	910.8
22.5°	821.6	838.4	868.2	889.0	894.1
25°	794.5	813.8	846.2	869.5	877.2
27.5°	764.6	788.0	822.9	851.5	857.9
30°	733.5	758.2	798.3	829.3	837.1
32.5°	701.2	729.7	772.4	807.4	817.8
35°	668.8	697.4	743.9	782.9	794.5
37.5°	631.3	665.0	716.9	757.0	771.0
40°	599.1	631.3	687.1	731.1	745.3
42.5°	562.8	597.8	656.1	703.8	720.7
45°	526.6	564.1	626.2	676.7	693.6
47.5°	492.9	530.4	595.1	648.3	665.0
50°	458.0	496.8	564.1	618.4	635.3
52.5°	420.5	463.2	533.0	587.4	606.8
55°	386.8	429.5	499.3	556.3	575.8
57.5°	351.8	395.9	468.4	522.8	540.9
60°	319.6	362.2	433.6	486.4	507.2
62.5°	284.6	328.5	398.4	450.3	469.7
65°	252.2	295.0	363.6	414.1	432.1
67.5°	219.9	262.8	327.2	375.3	395.9
70°	187.5	230.4	289.7	336.5	354.5
72.5°	159.2	196.7	253.5	296.3	313.2
75°	128.2	165.7	213.4	250.9	258.7
77.5°	99.6	133.3	173.4	190.1	192.9
80°	73.7	99.6	126.8	130.7	130.7
82.5°	49.1	68.6	79.0	80.1	79.0
85°	29.7	36.2	37.5	32.4	29.7
87.5°	10.3	10.3	6.4	3.8	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)