

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: P881084

Luminaire Tested: **22CZ2-29VHE-S-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: P881084
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-S-UNV-B40
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

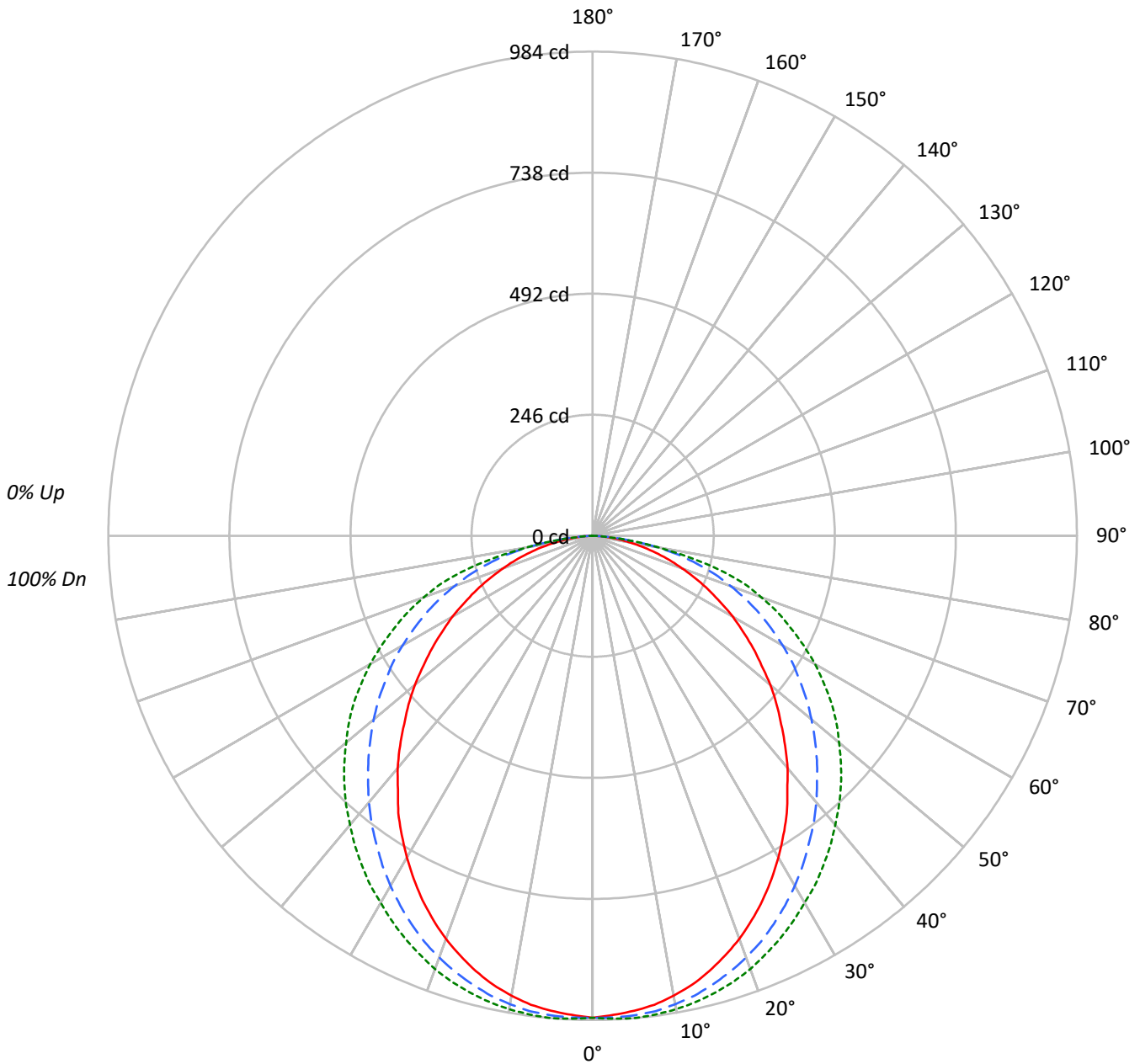
Lumens per Lamp: N/A
Luminaire Lumens: 2805.0 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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°	2780	2780	2780
5°	2760	2787	2803
10°	2735	2785	2815
15°	2691	2773	2824
20°	2633	2754	2830
25°	2559	2726	2826
30°	2473	2691	2822
35°	2384	2652	2832
40°	2283	2619	2841
45°	2174	2585	2864
50°	2081	2562	2886
55°	1969	2542	2931
60°	1867	2532	2962
65°	1742	2512	2985
70°	1600	2473	3026
75°	1446	2408	2918
80°	1239	2132	2196
85°	996	1257	996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	3.3
10°-20°	265.6	9.5
20°-30°	398.9	14.2
30°-40°	475.7	17.0
40°-50°	491.9	17.5
50°-60°	452.2	16.1
60°-70°	360.0	12.8
70°-80°	220.0	7.8
80°-90°	47.8	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°	757.4	27.0
0°-40°	1233.1	44.0
0°-60°	2177.2	77.6
0°-90°	2805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	969	972	978	982	984	92
15°	916	927	944	957	961	258
25°	818	837	871	895	903	376
35°	688	718	766	806	818	429
45°	542	580	644	696	714	419
55°	398	442	514	572	592	356
65°	260	304	374	426	445	257
75°	132	170	220	258	266	140
85°	31	37	39	33	31	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	979.8	979.8	979.8	979.8	979.8
2.5°	974.6	975.8	979.8	982.5	982.5
5°	969.1	971.8	978.5	982.5	983.9
7.5°	961.3	965.2	974.6	979.8	981.3
10°	949.2	954.7	966.6	974.6	977.1
12.5°	934.6	942.6	957.2	967.9	970.5
15°	916.1	926.6	943.8	957.2	961.3
17.5°	894.7	907.9	929.3	945.3	950.6
20°	871.9	885.3	912.0	930.5	937.2
22.5°	845.4	862.7	893.3	914.7	920.0
25°	817.5	837.4	870.7	894.7	902.7
27.5°	786.8	810.9	846.7	876.1	882.8
30°	754.8	780.1	821.4	853.4	861.4
32.5°	721.5	750.9	794.7	830.8	841.5
35°	688.2	717.6	765.5	805.6	817.5
37.5°	649.6	684.3	737.6	778.9	793.4
40°	616.4	649.6	707.0	752.2	766.9
42.5°	579.1	615.1	675.1	724.2	741.5
45°	541.8	580.4	644.3	696.3	713.7
47.5°	507.2	545.8	612.4	667.1	684.3
50°	471.3	511.2	580.4	636.3	653.7
52.5°	432.7	476.6	548.5	604.4	624.4
55°	398.1	441.9	513.8	572.4	592.5
57.5°	362.0	407.4	482.0	537.9	556.6
60°	328.9	372.7	446.1	500.5	521.9
62.5°	292.8	338.1	410.0	463.3	483.4
65°	259.5	303.6	374.1	426.1	444.6
67.5°	226.2	270.4	336.7	386.1	407.4
70°	192.9	237.1	298.1	346.2	364.7
72.5°	163.8	202.4	260.9	304.9	322.2
75°	131.9	170.5	219.6	258.2	266.2
77.5°	102.5	137.2	178.5	195.6	198.5
80°	75.8	102.5	130.5	134.4	134.4
82.5°	50.5	70.5	81.2	82.4	81.2
85°	30.6	37.2	38.6	33.3	30.6
87.5°	10.6	10.6	6.6	3.9	1.4
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)