

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: P881078

Luminaire Tested: **22CZ2-29VHE-HRP-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: P881078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475114)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29VHE-HRP-UNV-B40
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

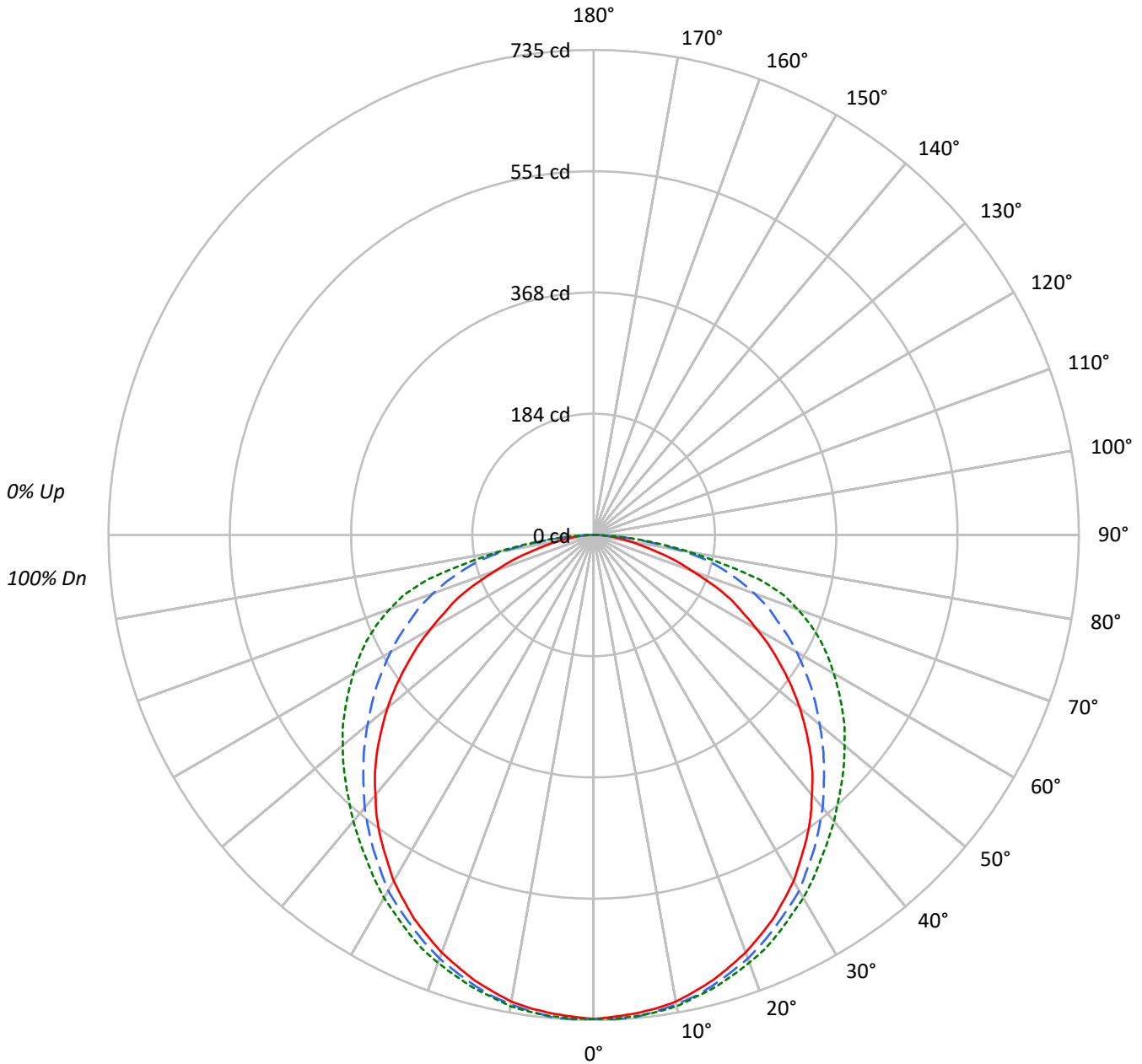
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2228.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
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	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2082	2082	2082
5°	2074	2090	2086
10°	2069	2081	2090
15°	2052	2073	2085
20°	2033	2063	2084
25°	2011	2046	2081
30°	1985	2040	2082
35°	1947	2016	2079
40°	1905	1999	2098
45°	1861	1980	2132
50°	1799	1973	2190
55°	1717	1989	2274
60°	1619	2017	2385
65°	1529	2057	2548
70°	1306	2145	2728
75°	1094	2235	2835
80°	897	2159	2366
85°	778	1599	1739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	3.1
10°-20°	198.9	8.9
20°-30°	301.4	13.5
30°-40°	364.0	16.3
40°-50°	382.5	17.2
50°-60°	359.9	16.2
60°-70°	300.0	13.5
70°-80°	198.8	8.9
80°-90°	53.0	2.4
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°	569.9	25.6
0°-40°	933.9	41.9
0°-60°	1676.2	75.2
0°-90°	2228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	728	729	734	734	732	69
15°	698	701	706	708	710	197
25°	642	647	654	662	665	296
35°	562	568	582	595	600	352
45°	464	471	493	518	531	357
55°	347	363	402	443	460	311
65°	228	247	306	357	380	222
75°	100	139	204	246	259	108
85°	24	36	49	53	53	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	733.6	733.6	733.6	733.6	733.6
2.5°	730.8	732.2	735.0	735.0	733.6
5°	728.0	729.4	733.6	733.6	732.2
7.5°	723.8	725.4	728.0	730.8	729.4
10°	718.2	719.6	722.4	725.4	725.4
12.5°	708.4	709.8	715.4	716.9	716.9
15°	698.5	701.3	705.6	708.4	709.8
17.5°	685.9	688.7	694.3	699.9	699.9
20°	673.3	676.1	683.1	688.7	690.0
22.5°	657.8	662.0	669.0	676.1	678.9
25°	642.4	646.6	653.6	662.0	664.8
27.5°	624.0	628.2	638.2	648.0	649.2
30°	605.7	609.9	622.6	631.0	635.3
32.5°	583.3	588.9	601.5	614.1	618.4
35°	562.2	567.8	581.9	594.6	600.1
37.5°	539.7	545.2	560.8	576.4	583.3
40°	514.3	521.5	539.7	556.6	566.4
42.5°	490.6	497.6	515.9	538.3	548.2
45°	463.8	470.8	493.4	518.5	531.3
47.5°	435.7	444.1	470.8	501.8	514.3
50°	407.6	417.4	446.9	482.0	496.1
52.5°	378.0	390.8	424.5	462.5	479.2
55°	347.1	362.7	402.0	442.7	459.6
57.5°	317.6	331.8	378.0	421.6	439.9
60°	285.3	303.6	355.5	400.4	420.2
62.5°	254.4	274.1	331.8	379.5	400.4
65°	227.7	247.3	306.4	356.9	379.5
67.5°	192.5	219.3	285.3	333.0	355.5
70°	157.4	193.9	258.6	307.8	328.8
72.5°	130.7	165.8	232.0	281.1	300.8
75°	99.8	139.1	203.9	246.0	258.6
77.5°	74.6	115.3	174.2	195.4	196.7
80°	54.9	88.5	132.1	139.1	144.8
82.5°	38.1	61.8	85.8	94.1	97.0
85°	23.9	36.5	49.1	53.4	53.4
87.5°	12.6	14.0	16.8	16.8	16.8
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)