

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: P881079

Luminaire Tested: **22CZ2-29VHE-HRP-UNV-B50**

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: P881079
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-B50
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

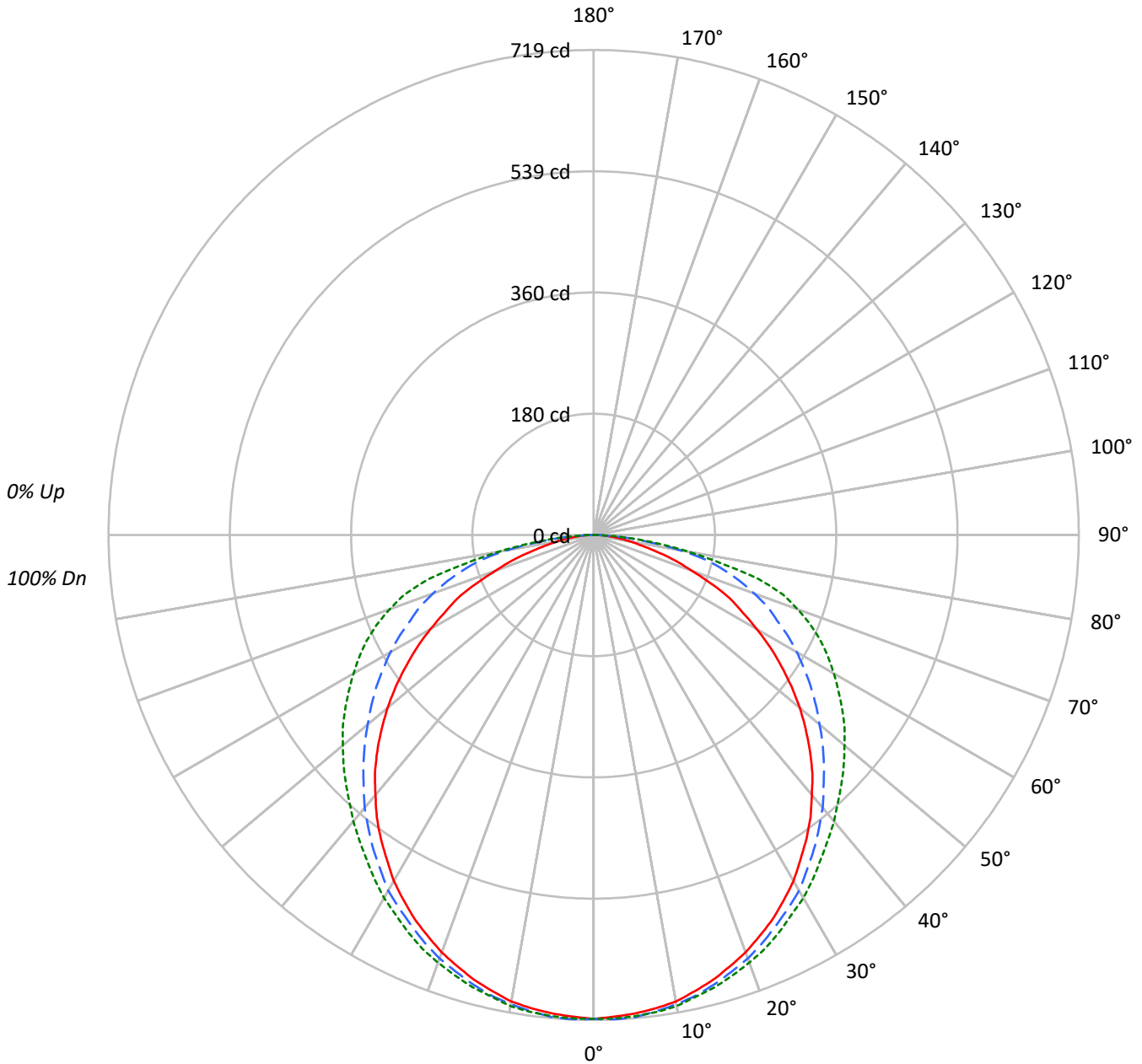
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2179.0 lumens
Efficiency: N/A
Efficacy: 99.0 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°	2036	2036	2036
5°	2028	2044	2040
10°	2024	2036	2044
15°	2007	2027	2039
20°	1988	2017	2038
25°	1967	2001	2036
30°	1941	1995	2036
35°	1905	1971	2033
40°	1863	1955	2052
45°	1820	1936	2085
50°	1760	1930	2142
55°	1680	1945	2224
60°	1583	1973	2332
65°	1495	2012	2492
70°	1277	2098	2668
75°	1070	2186	2773
80°	877	2111	2314
85°	759	1566	1699



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	3.1
10°-20°	194.5	8.9
20°-30°	294.8	13.5
30°-40°	356.0	16.3
40°-50°	374.0	17.2
50°-60°	351.9	16.2
60°-70°	293.4	13.5
70°-80°	194.4	8.9
80°-90°	51.8	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°	557.4	25.6
0°-40°	913.3	41.9
0°-60°	1639.3	75.2
0°-90°	2179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	718	718	718	718	718	
5°	712	713	718	718	716	68
15°	683	686	690	693	694	193
25°	628	632	639	648	650	289
35°	550	555	569	582	587	344
45°	454	460	482	507	520	349
55°	340	355	393	433	450	304
65°	223	242	300	349	371	217
75°	98	136	199	241	253	106
85°	23	36	48	52	52	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	717.5	717.5	717.5	717.5	717.5
2.5°	714.8	716.1	718.9	718.9	717.5
5°	712.0	713.4	717.5	717.5	716.1
7.5°	707.9	709.4	712.0	714.8	713.4
10°	702.4	703.8	706.5	709.4	709.4
12.5°	692.8	694.2	699.6	701.2	701.2
15°	683.2	685.9	690.0	692.8	694.2
17.5°	670.8	673.6	679.0	684.5	684.5
20°	658.5	661.2	668.1	673.6	674.8
22.5°	643.3	647.5	654.3	661.2	663.9
25°	628.2	632.4	639.2	647.5	650.2
27.5°	610.3	614.4	624.1	633.7	635.0
30°	592.4	596.5	608.9	617.1	621.4
32.5°	570.4	575.9	588.3	600.6	604.8
35°	549.8	555.3	569.1	581.6	586.9
37.5°	527.9	533.2	548.5	563.7	570.4
40°	503.0	510.0	527.9	544.3	554.0
42.5°	479.8	486.7	504.5	526.5	536.1
45°	453.6	460.4	482.5	507.1	519.6
47.5°	426.1	434.3	460.4	490.8	503.0
50°	398.6	408.3	437.1	471.4	485.2
52.5°	369.7	382.2	415.1	452.3	468.7
55°	339.5	354.7	393.1	433.0	449.5
57.5°	310.6	324.5	369.7	412.4	430.2
60°	279.0	296.9	347.7	391.6	411.0
62.5°	248.8	268.0	324.5	371.2	391.6
65°	222.7	241.8	299.6	349.1	371.2
67.5°	188.3	214.5	279.0	325.7	347.7
70°	153.9	189.6	252.9	301.0	321.6
72.5°	127.8	162.2	226.9	274.9	294.1
75°	97.6	136.1	199.4	240.6	252.9
77.5°	72.9	112.7	170.4	191.2	192.4
80°	53.7	86.5	129.2	136.1	141.6
82.5°	37.2	60.4	83.9	92.0	94.9
85°	23.3	35.7	48.1	52.2	52.2
87.5°	12.4	13.7	16.5	16.5	16.5
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)