

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: P880728

Luminaire Tested: **22CZ2-39VHE-HRP-B2750-W2D-3000K**

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: P880728
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: 22CZ2-39VHE-HRP-B2750-W2D-3000K
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

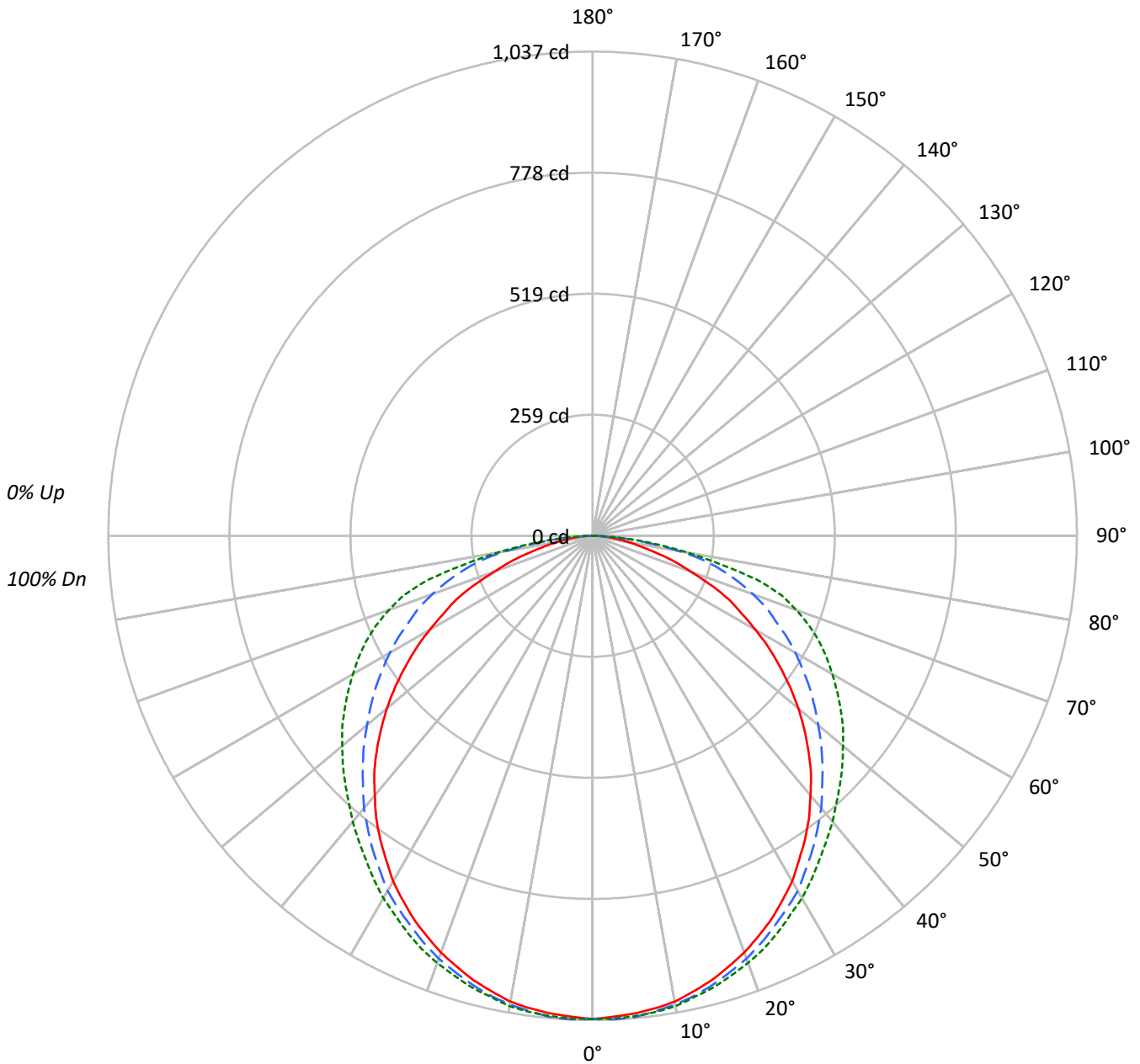
Lumens per Lamp: N/A
Luminaire Lumens: 3143.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 32
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°	2937	2937	2937
5°	2925	2948	2942
10°	2919	2936	2948
15°	2895	2924	2941
20°	2868	2910	2939
25°	2837	2887	2936
30°	2800	2878	2937
35°	2747	2843	2933
40°	2687	2820	2960
45°	2625	2793	3008
50°	2538	2783	3089
55°	2422	2805	3207
60°	2284	2846	3364
65°	2157	2902	3595
70°	1842	3027	3849
75°	1544	3153	3999
80°	1265	3046	3337
85°	1097	2256	2452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	3.1
10°-20°	280.6	8.9
20°-30°	425.2	13.5
30°-40°	513.5	16.3
40°-50°	539.5	17.2
50°-60°	507.6	16.2
60°-70°	423.2	13.5
70°-80°	280.5	8.9
80°-90°	74.7	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°	803.9	25.6
0°-40°	1317.4	41.9
0°-60°	2364.5	75.2
0°-90°	3143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1027	1029	1035	1035	1033	98
15°	985	989	995	999	1001	278
25°	906	912	922	934	938	417
35°	793	801	821	839	847	496
45°	654	664	696	732	750	504
55°	490	512	567	624	648	438
65°	321	349	432	504	535	313
75°	141	196	288	347	365	153
85°	34	52	69	75	75	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1034.9	1034.9	1034.9	1034.9	1034.9
2.5°	1031.0	1032.9	1036.9	1036.9	1034.9
5°	1027.0	1029.0	1034.9	1034.9	1032.9
7.5°	1021.1	1023.2	1027.0	1031.0	1029.0
10°	1013.1	1015.1	1019.1	1023.2	1023.2
12.5°	999.3	1001.3	1009.2	1011.4	1011.4
15°	985.4	989.4	995.3	999.3	1001.3
17.5°	967.6	971.5	979.5	987.4	987.4
20°	949.8	953.7	963.6	971.5	973.3
22.5°	928.0	933.9	943.8	953.7	957.7
25°	906.2	912.1	922.0	933.9	937.9
27.5°	880.2	886.2	900.2	914.1	915.9
30°	854.5	860.4	878.3	890.1	896.3
32.5°	822.8	830.7	848.5	866.4	872.3
35°	793.1	801.0	820.8	838.8	846.6
37.5°	761.4	769.1	791.1	813.1	822.8
40°	725.5	735.6	761.4	785.2	799.0
42.5°	692.1	702.0	727.7	759.4	773.3
45°	654.2	664.1	696.0	731.5	749.5
47.5°	614.6	626.5	664.1	707.9	725.5
50°	575.0	588.9	630.5	680.0	699.8
52.5°	533.2	551.2	598.8	652.4	676.0
55°	489.6	511.6	567.1	624.5	648.3
57.5°	448.0	468.0	533.2	594.8	620.6
60°	402.5	428.2	501.5	564.9	592.8
62.5°	358.9	386.6	468.0	535.4	564.9
65°	321.3	348.8	432.2	503.5	535.4
67.5°	271.6	309.4	402.5	469.8	501.5
70°	222.0	273.5	364.8	434.2	463.9
72.5°	184.4	233.9	327.2	396.5	424.3
75°	140.8	196.3	287.6	347.0	364.8
77.5°	105.2	162.6	245.8	275.7	277.5
80°	77.4	124.8	186.4	196.3	204.2
82.5°	53.7	87.2	121.0	132.7	136.9
85°	33.7	51.5	69.3	75.3	75.3
87.5°	17.8	19.8	23.8	23.8	23.8
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)