

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: P881110

Luminaire Tested: **22CZ2-39VHE-RDP-UNV-B35**

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: P881110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474998)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39VHE-RDP-UNV-B35
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

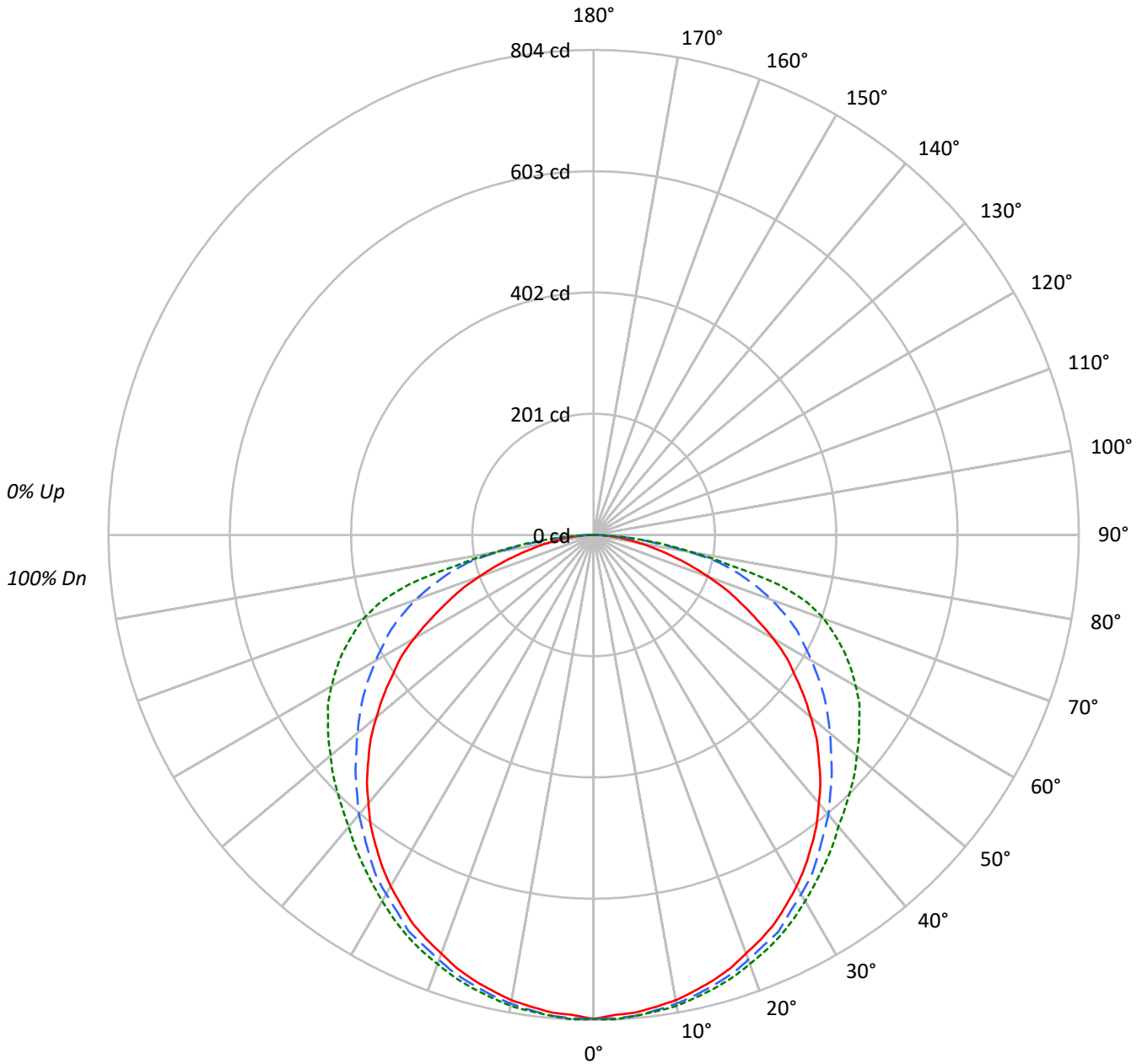
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2554.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
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	100	96	92	96	92	89	92	89	86	88	86	84	82																			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67																			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55																			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47																			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35																			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31																			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27																			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2277	2277	2277
5°	2264	2280	2280
10°	2257	2273	2285
15°	2246	2268	2285
20°	2230	2263	2286
25°	2224	2271	2294
30°	2204	2253	2297
35°	2180	2245	2310
40°	2151	2241	2338
45°	2118	2240	2412
50°	2073	2256	2513
55°	2017	2305	2658
60°	1951	2367	2847
65°	1816	2486	3078
70°	1668	2604	3368
75°	1464	2739	3482
80°	1260	2608	2734
85°	1104	1895	2077



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	3.0
10°-20°	217.9	8.5
20°-30°	332.4	13.0
30°-40°	405.9	15.9
40°-50°	434.0	17.0
50°-60°	418.9	16.4
60°-70°	360.6	14.1
70°-80°	244.0	9.6
80°-90°	64.4	2.5
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°	626.2	24.5
0°-40°	1032.1	40.4
0°-60°	1885.0	73.8
0°-90°	2554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	795	797	800	800	800	75
15°	765	766	772	776	778	216
25°	710	714	725	729	733	327
35°	629	635	648	661	667	394
45°	528	537	558	586	601	408
55°	408	421	466	513	537	365
65°	270	297	370	428	458	269
75°	134	177	250	301	318	143
85°	34	47	58	60	64	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	802.3	802.3	802.3	802.3	802.3
2.5°	796.6	798.4	802.3	802.3	804.0
5°	794.7	796.6	800.3	800.3	800.3
7.5°	789.0	791.0	794.7	796.6	796.6
10°	783.4	785.3	789.0	791.0	792.9
12.5°	774.1	775.8	781.4	785.3	785.3
15°	764.7	766.5	772.1	775.8	777.8
17.5°	753.2	757.1	762.8	766.5	768.4
20°	738.4	742.1	749.5	755.4	757.1
22.5°	725.2	729.1	736.5	742.1	745.8
25°	710.2	713.9	725.2	729.1	732.8
27.5°	691.4	695.2	704.6	712.0	717.6
30°	672.7	676.4	687.7	697.2	700.9
32.5°	651.9	657.5	670.7	678.3	683.8
35°	629.3	634.9	648.2	661.2	667.0
37.5°	606.9	612.5	625.6	642.5	650.1
40°	580.6	588.0	605.0	627.5	631.2
42.5°	556.1	565.5	580.6	606.9	616.2
45°	527.9	537.2	558.1	586.3	601.1
47.5°	501.6	511.0	533.5	567.4	586.3
50°	469.7	482.8	511.0	550.5	569.2
52.5°	439.6	450.9	488.6	531.6	554.4
55°	407.7	420.9	466.0	512.9	537.2
57.5°	379.6	390.7	441.5	494.2	522.3
60°	343.8	358.8	417.0	473.4	501.6
62.5°	306.1	328.8	392.7	450.9	480.8
65°	270.5	296.7	370.3	428.3	458.4
67.5°	238.6	266.8	342.1	404.0	432.2
70°	201.0	236.8	313.9	374.0	405.9
72.5°	167.3	206.6	282.0	342.1	370.3
75°	133.5	176.7	249.8	300.6	317.6
77.5°	103.3	144.8	214.0	229.2	231.2
80°	77.1	114.6	159.6	161.5	167.3
82.5°	52.7	80.8	103.3	112.7	114.6
85°	33.9	47.1	58.2	60.1	63.8
87.5°	15.2	16.9	20.6	18.9	18.9
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)