

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: P881073

Luminaire Tested: **22CZ2-24VHE-SQR-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: P881073
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: 22CZ2-24VHE-SQR-UNV-B50
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

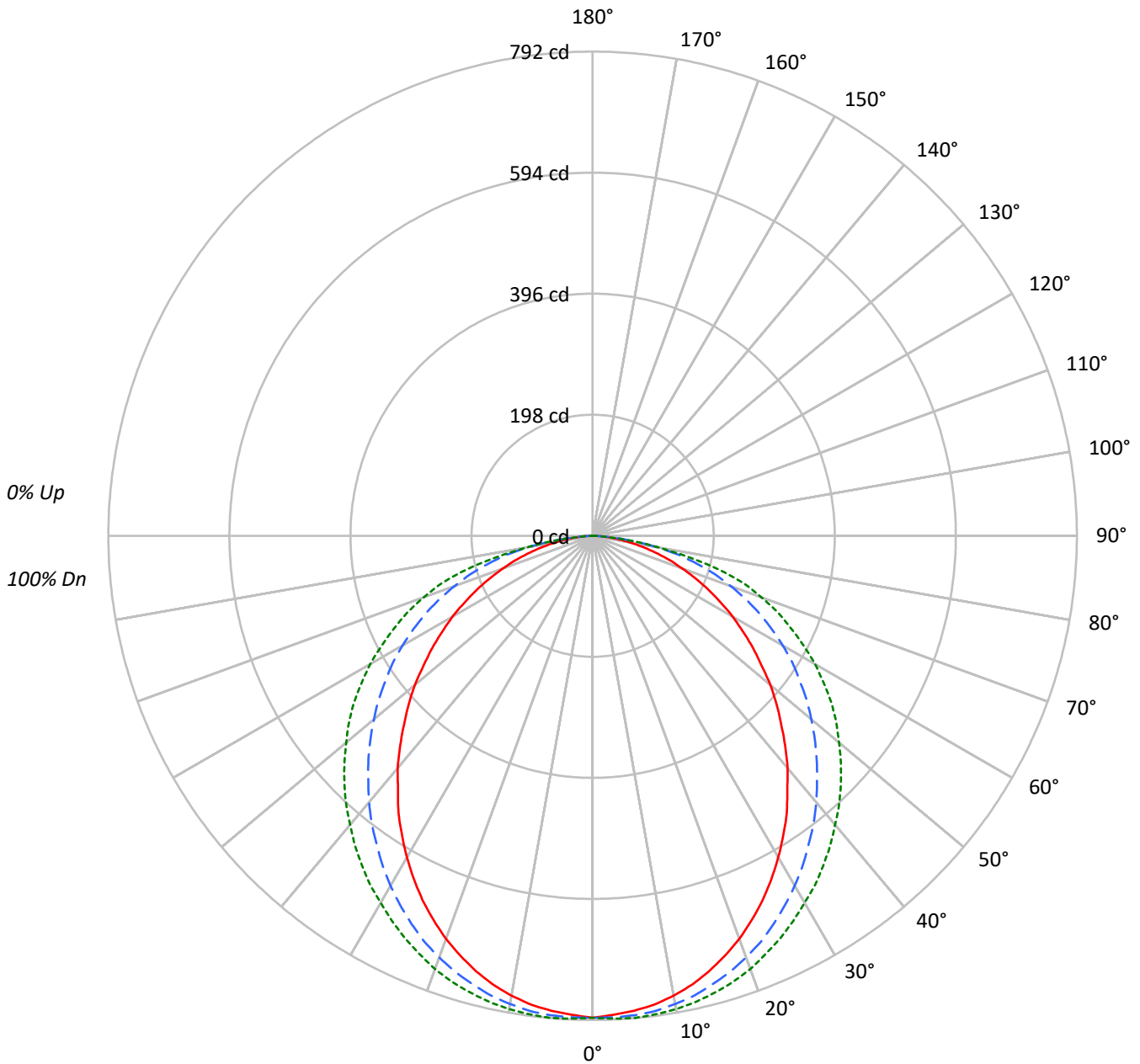
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2257.0 lumens
Efficiency: N/A
Efficacy: 112.9 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): 20
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°	2237	2237	2237
5°	2221	2243	2255
10°	2201	2241	2265
15°	2165	2231	2272
20°	2119	2216	2277
25°	2059	2193	2274
30°	1990	2165	2271
35°	1918	2134	2279
40°	1837	2107	2285
45°	1750	2081	2304
50°	1674	2062	2322
55°	1585	2045	2358
60°	1502	2037	2384
65°	1402	2021	2402
70°	1288	1990	2435
75°	1163	1937	2348
80°	997	1716	1768
85°	801	1009	801



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	3.3
10°-20°	213.7	9.5
20°-30°	321.0	14.2
30°-40°	382.8	17.0
40°-50°	395.8	17.5
50°-60°	363.9	16.1
60°-70°	289.7	12.8
70°-80°	177.0	7.8
80°-90°	38.4	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°	609.4	27.0
0°-40°	992.2	44.0
0°-60°	1751.9	77.6
0°-90°	2257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	780	782	787	791	792	74
15°	737	746	759	770	774	208
25°	658	674	701	720	726	303
35°	554	577	616	648	658	345
45°	436	467	518	560	574	337
55°	320	356	413	461	477	286
65°	209	244	301	343	358	207
75°	106	137	177	208	214	113
85°	25	30	31	27	25	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	788.4	788.4	788.4	788.4	788.4
2.5°	784.2	785.1	788.4	790.6	790.6
5°	779.8	782.0	787.3	790.6	791.7
7.5°	773.5	776.6	784.2	788.4	789.6
10°	763.8	768.2	777.7	784.2	786.2
12.5°	752.0	758.5	770.2	778.8	780.9
15°	737.1	745.6	759.4	770.2	773.5
17.5°	719.9	730.6	747.8	760.6	764.9
20°	701.6	712.4	733.8	748.8	754.1
22.5°	680.2	694.2	718.8	736.0	740.3
25°	657.8	673.8	700.6	719.9	726.3
27.5°	633.1	652.5	681.3	705.0	710.3
30°	607.3	627.7	660.9	686.7	693.1
32.5°	580.5	604.2	639.5	668.5	677.1
35°	553.7	577.4	616.0	648.2	657.8
37.5°	522.7	550.6	593.5	626.7	638.4
40°	496.0	522.7	568.9	605.3	617.0
42.5°	465.9	494.9	543.2	582.7	596.7
45°	436.0	467.0	518.5	560.3	574.2
47.5°	408.1	439.1	492.7	536.8	550.6
50°	379.2	411.4	467.0	512.0	526.0
52.5°	348.2	383.5	441.3	486.3	502.4
55°	320.3	355.6	413.4	460.6	476.7
57.5°	291.3	327.8	387.8	432.8	447.9
60°	264.6	299.9	359.0	402.8	420.0
62.5°	235.6	272.0	329.9	372.8	388.9
65°	208.8	244.2	301.0	342.8	357.8
67.5°	182.0	217.6	270.9	310.7	327.8
70°	155.2	190.8	239.9	278.6	293.5
72.5°	131.8	162.9	209.9	245.3	259.3
75°	106.1	137.2	176.7	207.7	214.2
77.5°	82.5	110.4	143.6	157.4	159.7
80°	61.0	82.5	105.0	108.2	108.2
82.5°	40.6	56.8	65.4	66.3	65.4
85°	24.6	30.0	31.0	26.8	24.6
87.5°	8.5	8.5	5.3	3.2	1.1
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)