

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: P881163

Luminaire Tested: **24CZ2-30VHE-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: P881163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474669)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30VHE-SQR-UNV-B50
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

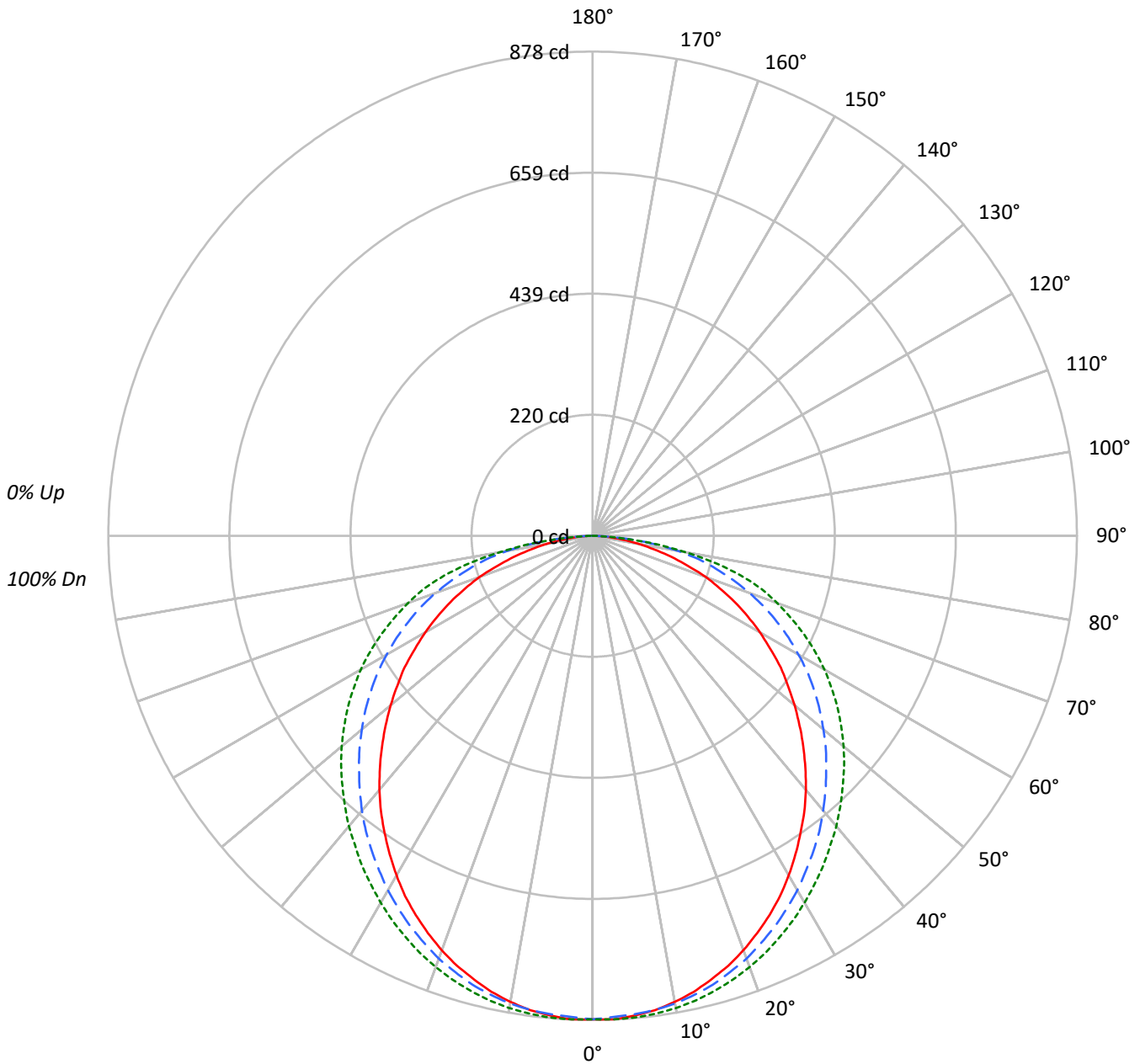
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2670.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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					20					
RC	80					70					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	81	75	84	78	73	80	76	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	53	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°	1238	1238	1238
5°	1238	1234	1242
10°	1230	1234	1246
15°	1217	1232	1248
20°	1201	1226	1250
25°	1182	1217	1250
30°	1159	1210	1252
35°	1133	1202	1257
40°	1108	1198	1267
45°	1078	1195	1280
50°	1049	1199	1304
55°	1025	1207	1333
60°	990	1216	1370
65°	950	1231	1412
70°	901	1248	1468
75°	807	1265	1516
80°	679	1269	1376
85°	504	960	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	3.1
10°-20°	238.2	8.9
20°-30°	360.6	13.5
30°-40°	436.2	16.3
40°-50°	460.4	17.2
50°-60°	434.2	16.3
60°-70°	358.0	13.4
70°-80°	234.8	8.8
80°-90°	64.6	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°	681.9	25.5
0°-40°	1118.1	41.9
0°-60°	2012.7	75.4
0°-90°	2670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	874	874	871	877	877	83
15°	833	837	843	853	854	235
25°	759	768	782	798	803	349
35°	657	674	698	722	729	411
45°	540	564	599	631	642	417
55°	416	446	491	527	542	371
65°	284	319	369	408	423	281
75°	148	186	232	269	278	156
85°	31	54	59	58	56	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	877.0	877.0	877.0	877.0	877.0
2.5°	877.8	877.0	873.2	878.3	877.8
5°	873.6	873.6	871.1	877.0	877.0
7.5°	867.6	868.0	867.2	874.0	874.0
10°	858.3	859.9	861.2	868.9	869.7
12.5°	847.1	850.2	852.7	862.1	863.0
15°	832.6	837.4	842.9	852.7	854.4
17.5°	817.7	823.3	829.3	842.1	844.2
20°	799.8	806.2	816.0	828.8	832.2
22.5°	779.8	788.7	798.9	814.3	818.6
25°	758.9	768.2	781.5	797.7	802.7
27.5°	736.3	747.3	762.3	781.0	786.6
30°	711.1	723.8	742.2	762.3	768.2
32.5°	684.6	699.5	720.0	742.2	749.0
35°	657.4	674.4	697.9	721.8	729.4
37.5°	630.4	647.5	675.3	700.4	707.6
40°	601.4	620.2	650.5	677.4	687.6
42.5°	570.7	593.0	624.9	654.8	664.6
45°	540.0	564.3	598.9	630.9	641.5
47.5°	508.9	535.8	573.7	606.1	618.5
50°	477.7	506.3	546.0	581.0	593.8
52.5°	446.2	476.1	519.1	556.2	567.8
55°	416.4	445.7	490.6	527.2	541.7
57.5°	381.8	415.0	462.4	499.5	513.6
60°	350.6	383.1	430.9	470.1	485.4
62.5°	316.9	350.2	400.5	439.8	454.7
65°	284.5	318.7	368.6	407.8	422.7
67.5°	249.6	285.4	336.6	374.5	389.1
70°	218.4	252.1	302.4	341.3	355.8
72.5°	180.4	218.9	267.0	305.4	321.2
75°	148.0	185.9	232.0	268.8	278.1
77.5°	113.9	151.9	197.5	221.3	227.8
80°	83.6	119.4	156.1	168.9	169.3
82.5°	56.3	87.9	108.8	115.2	114.3
85°	31.1	53.7	59.3	57.6	55.9
87.5°	12.8	17.9	14.5	10.2	8.1
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)