

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: P842991

Luminaire Tested: **24CZ2-30-SQR-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-SQR-UNV-B50
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

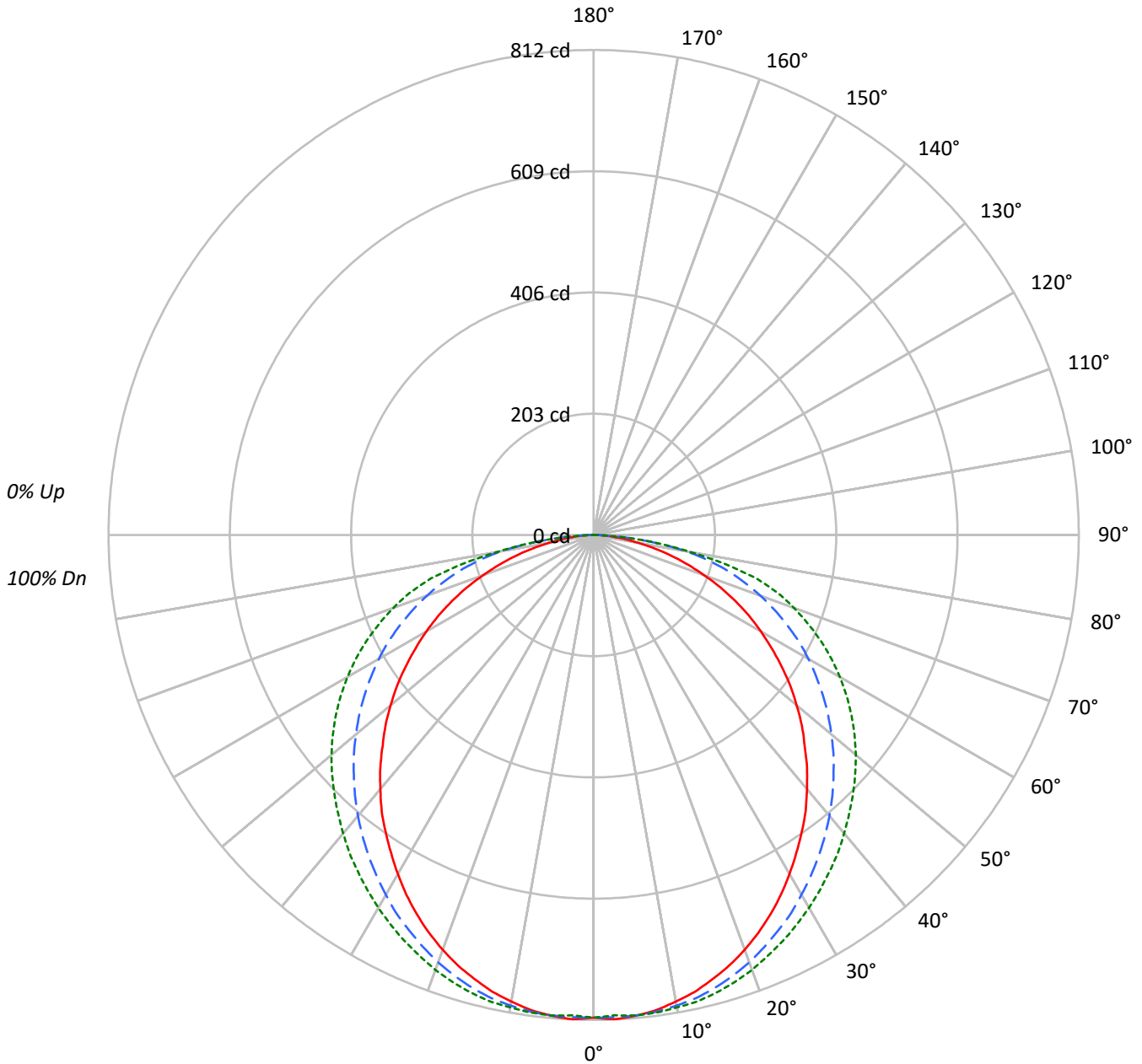
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2529.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
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 (A_{in}): 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	93	89	92	89	87	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1141	1141	1141
5°	1145	1144	1144
10°	1137	1147	1151
15°	1125	1147	1159
20°	1110	1144	1164
25°	1091	1138	1168
30°	1068	1134	1175
35°	1046	1131	1186
40°	1023	1131	1202
45°	997	1133	1225
50°	974	1140	1258
55°	945	1153	1296
60°	912	1171	1344
65°	873	1194	1400
70°	810	1224	1472
75°	733	1266	1539
80°	618	1270	1323
85°	473	960	960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	3.0
10°-20°	220.8	8.7
20°-30°	335.3	13.3
30°-40°	407.9	16.1
40°-50°	434.3	17.2
50°-60°	413.6	16.4
60°-70°	345.9	13.7
70°-80°	230.6	9.1
80°-90°	63.8	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°	632.9	25.0
0°-40°	1040.8	41.2
0°-60°	1888.7	74.7
0°-90°	2529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	808	803	808	808	808	77
15°	770	772	785	791	793	217
25°	701	710	731	743	750	323
35°	607	625	656	678	688	380
45°	499	526	568	600	614	386
55°	384	418	468	509	527	343
65°	261	300	357	402	419	258
75°	134	177	232	271	282	142
85°	29	54	59	58	59	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	808.3	808.3	808.3	808.3	808.3
2.5°	811.7	805.9	808.3	808.3	805.1
5°	808.3	803.4	807.6	807.6	807.6
7.5°	802.6	798.4	805.1	806.7	806.7
10°	793.4	791.7	800.1	802.6	803.4
12.5°	783.4	782.5	794.2	797.5	800.1
15°	769.9	771.7	785.0	790.9	793.4
17.5°	755.8	759.1	774.2	782.5	785.0
20°	739.1	744.1	761.7	769.9	775.0
22.5°	720.8	728.3	746.6	756.6	762.4
25°	700.7	709.8	730.7	743.2	750.0
27.5°	679.0	690.7	714.9	729.0	735.7
30°	655.5	668.9	695.7	712.4	720.8
32.5°	631.3	647.2	676.5	694.8	704.8
35°	607.1	624.7	656.4	678.1	688.1
37.5°	582.9	600.4	635.6	658.9	671.5
40°	555.4	576.2	613.9	639.7	652.3
42.5°	528.7	551.1	591.3	619.6	633.1
45°	499.4	526.2	567.8	599.6	613.9
47.5°	472.7	499.4	544.5	577.9	593.8
50°	443.5	471.8	519.4	556.2	572.9
52.5°	415.0	444.3	494.4	533.7	550.4
55°	384.2	417.5	468.5	509.4	526.9
57.5°	353.3	389.2	441.7	484.4	502.0
60°	323.2	359.9	415.0	457.7	476.0
62.5°	293.1	329.8	387.5	430.9	448.5
65°	261.3	299.8	357.4	401.7	419.3
67.5°	229.7	269.7	327.3	371.6	388.3
70°	196.2	238.9	296.5	339.9	356.6
72.5°	165.4	207.9	264.7	307.4	323.2
75°	134.5	177.0	232.2	271.4	282.3
77.5°	104.4	147.0	196.2	222.2	224.7
80°	76.0	116.1	156.2	163.7	162.8
82.5°	50.9	86.8	107.8	108.5	111.0
85°	29.2	54.3	59.3	58.5	59.3
87.5°	11.7	19.2	16.7	12.5	12.5
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)