

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: P842961

Luminaire Tested: **22CZ2-39HE-SQR-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387672)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39HE-SQR-UNV-B50
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

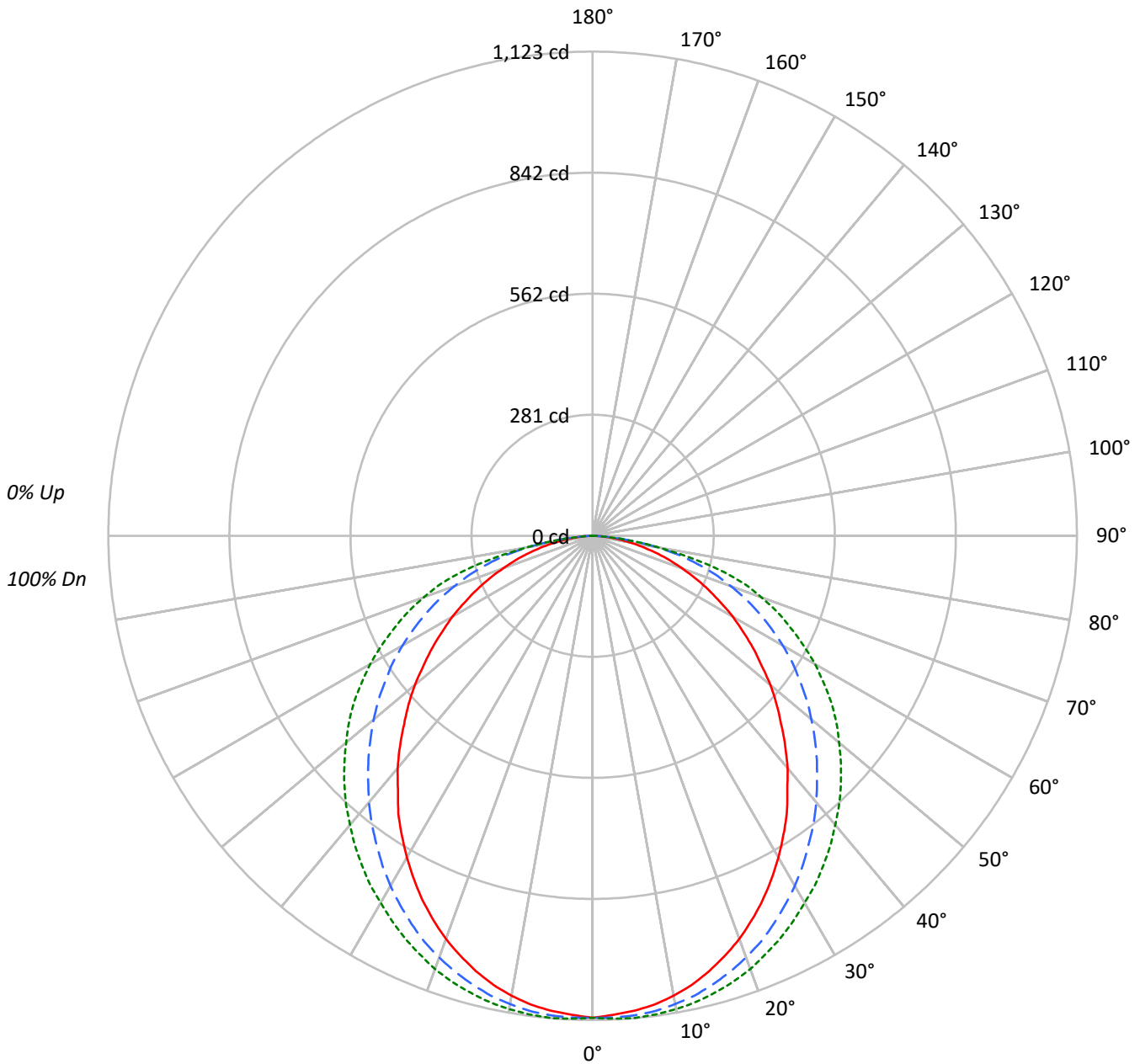
Lumens per Lamp: N/A
Luminaire Lumens: 3201.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3173	3173	3173
5°	3150	3181	3198
10°	3121	3178	3213
15°	3070	3164	3222
20°	3005	3143	3230
25°	2920	3111	3225
30°	2823	3071	3221
35°	2721	3026	3231
40°	2606	2988	3241
45°	2482	2951	3268
50°	2374	2924	3293
55°	2247	2901	3345
60°	2130	2889	3380
65°	1989	2867	3407
70°	1829	2823	3453
75°	1650	2750	3331
80°	1417	2433	2508
85°	1139	1439	1139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	3.3
10°-20°	303.1	9.5
20°-30°	455.2	14.2
30°-40°	542.9	17.0
40°-50°	561.3	17.5
50°-60°	516.0	16.1
60°-70°	410.8	12.8
70°-80°	251.0	7.8
80°-90°	54.6	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°	864.3	27.0
0°-40°	1407.2	44.0
0°-60°	2484.5	77.6
0°-90°	3201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3201.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1118	1118	1118	1118	1118	
5°	1106	1109	1117	1121	1123	105
15°	1045	1057	1077	1092	1097	294
25°	933	956	994	1021	1030	429
35°	786	819	874	919	933	490
45°	618	662	735	795	814	478
55°	454	504	586	653	676	406
65°	296	346	427	486	507	294
75°	150	194	251	295	304	160
85°	35	42	44	38	35	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1118.1	1118.1	1118.1	1118.1	<i>1118.1</i>
2.5°	1112.0	1113.6	1118.1	1121.1	<i>1121.1</i>
5°	<i>1105.9</i>	<i>1109.0</i>	<i>1116.7</i>	<i>1121.1</i>	<i>1122.7</i>
7.5°	1096.8	1101.5	1112.0	1118.1	<i>1119.7</i>
10°	1083.3	1089.3	1102.9	1112.0	<i>1115.1</i>
12.5°	1066.4	1075.6	1092.4	1104.5	<i>1107.6</i>
15°	1045.2	1057.3	1077.2	1092.4	<i>1096.8</i>
17.5°	1020.9	1036.1	1060.4	1078.6	<i>1084.7</i>
20°	995.1	1010.3	1040.7	1062.0	<i>1069.5</i>
22.5°	964.8	984.4	1019.4	1043.8	<i>1049.8</i>
25°	932.8	955.6	993.5	1020.9	<i>1030.0</i>
27.5°	897.9	925.3	966.2	999.6	<i>1007.3</i>
30°	861.5	890.2	937.4	973.9	<i>983.0</i>
32.5°	823.4	856.8	907.0	947.9	<i>960.1</i>
35°	785.5	818.9	873.6	919.2	<i>932.8</i>
37.5°	741.3	780.8	841.6	888.8	<i>905.4</i>
40°	703.5	741.3	806.8	858.4	<i>875.0</i>
42.5°	660.9	701.8	770.3	826.4	<i>846.3</i>
45°	618.4	662.3	735.3	794.6	<i>814.3</i>
47.5°	578.9	622.8	698.8	761.2	<i>780.8</i>
50°	537.8	583.4	662.3	726.2	<i>746.0</i>
52.5°	493.8	543.9	625.9	689.7	<i>712.6</i>
55°	454.3	504.4	586.4	653.2	<i>676.1</i>
57.5°	413.2	464.9	549.9	613.7	<i>635.0</i>
60°	375.3	425.4	509.0	571.2	<i>595.5</i>
62.5°	334.2	385.9	467.9	528.7	<i>551.6</i>
65°	296.3	346.4	427.0	486.1	<i>507.4</i>
67.5°	258.3	308.5	384.4	440.6	<i>464.9</i>
70°	220.4	270.4	340.3	395.0	<i>416.2</i>
72.5°	187.0	230.9	297.8	348.0	<i>367.6</i>
75°	150.5	194.5	250.8	294.7	<i>303.8</i>
77.5°	117.1	156.6	203.6	223.4	<i>226.5</i>
80°	86.7	117.1	148.9	153.5	<i>153.5</i>
82.5°	57.7	80.6	92.8	94.2	<i>92.8</i>
85°	35.0	42.5	44.2	38.1	<i>35.0</i>
87.5°	12.2	12.2	7.7	4.7	<i>1.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)