

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: P842960

Luminaire Tested: **22CZ2-39HE-SQR-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842960
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-B40
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

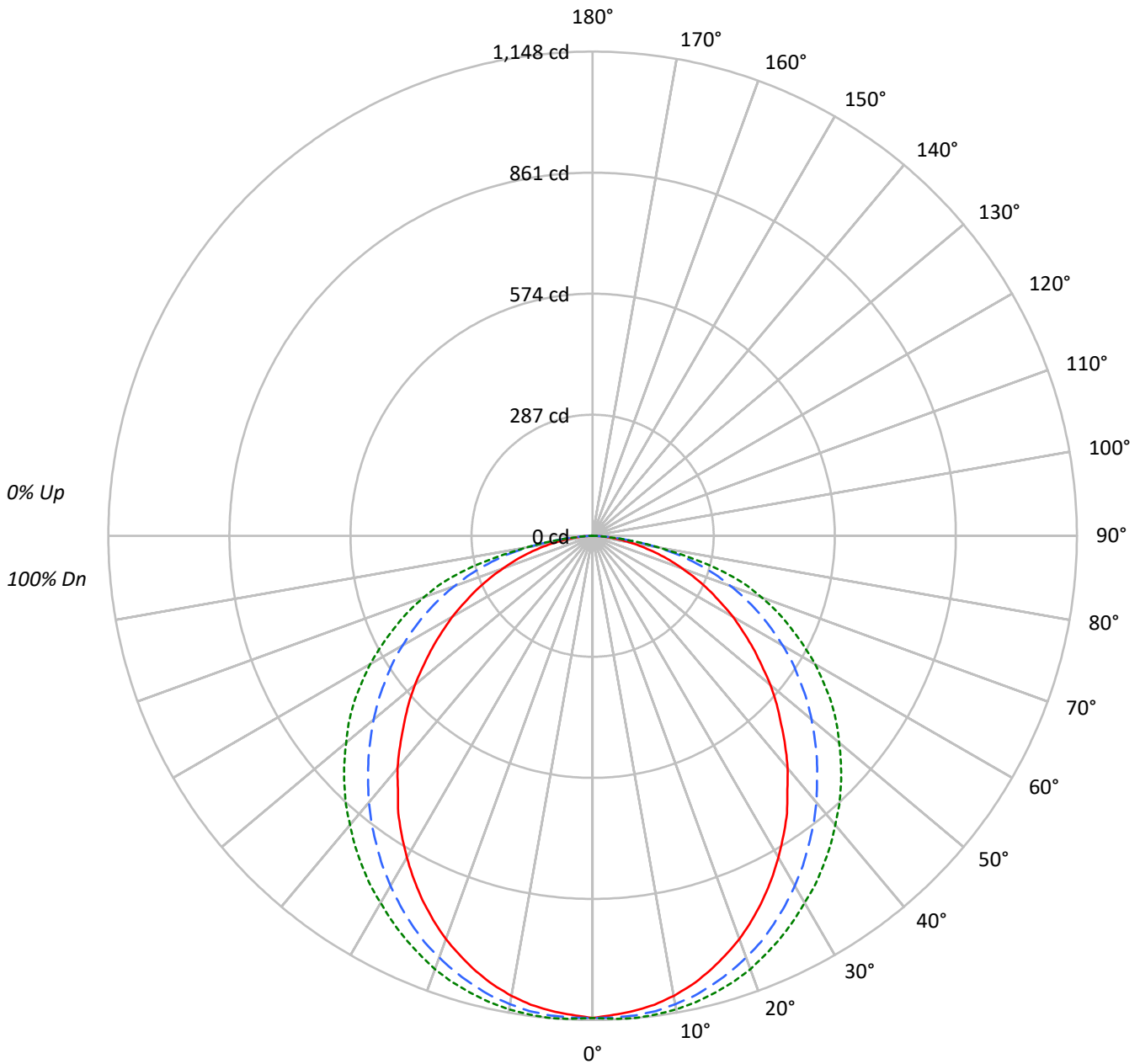
Lumens per Lamp: N/A
Luminaire Lumens: 3273.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 32
Input Voltage (V): NR
Input Current (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					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	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°	3244	3244	3244
5°	3221	3252	3270
10°	3191	3249	3285
15°	3139	3236	3295
20°	3072	3213	3302
25°	2986	3181	3297
30°	2886	3141	3293
35°	2782	3094	3304
40°	2664	3056	3314
45°	2537	3017	3341
50°	2427	2989	3367
55°	2298	2966	3420
60°	2178	2954	3456
65°	2034	2931	3483
70°	1869	2886	3531
75°	1687	2811	3406
80°	1448	2487	2565
85°	1166	1468	1166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	3.3
10°-20°	309.9	9.5
20°-30°	465.4	14.2
30°-40°	555.1	17.0
40°-50°	573.9	17.5
50°-60°	527.6	16.1
60°-70°	420.1	12.8
70°-80°	256.7	7.8
80°-90°	55.8	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°	883.7	27.0
0°-40°	1438.8	44.0
0°-60°	2540.4	77.6
0°-90°	3273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1131	1134	1142	1146	1148	107
15°	1069	1081	1101	1117	1122	301
25°	954	977	1016	1044	1053	439
35°	803	837	893	940	954	501
45°	632	677	752	812	833	489
55°	464	516	600	668	691	415
65°	303	354	437	497	519	300
75°	154	199	256	301	311	164
85°	36	44	45	39	36	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.2	1143.2	1143.2	1143.2	<i>1143.2</i>
2.5°	1137.0	1138.7	1143.2	1146.3	<i>1146.3</i>
5°	<i>1130.8</i>	<i>1133.9</i>	<i>1141.8</i>	<i>1146.3</i>	<i>1148.0</i>
7.5°	1121.5	1126.3	1137.0	1143.2	<i>1144.9</i>
10°	1107.6	1113.8	1127.7	1137.0	<i>1140.1</i>
12.5°	1090.4	1099.7	1116.9	1129.4	<i>1132.5</i>
15°	1068.7	1081.1	1101.4	1116.9	<i>1121.5</i>
17.5°	1043.8	1059.4	1084.2	1102.9	<i>1109.1</i>
20°	1017.5	1033.1	1064.1	1085.9	<i>1093.5</i>
22.5°	986.5	1006.5	1042.4	1067.2	<i>1073.4</i>
25°	953.7	977.1	1015.9	1043.8	<i>1053.1</i>
27.5°	918.1	946.1	987.9	1022.1	<i>1030.0</i>
30°	880.8	910.2	958.5	995.8	<i>1005.1</i>
32.5°	841.9	876.1	927.4	969.3	<i>981.7</i>
35°	803.2	837.3	893.3	939.9	<i>953.7</i>
37.5°	758.0	798.4	860.5	908.8	<i>925.8</i>
40°	719.3	758.0	824.9	877.7	<i>894.7</i>
42.5°	675.8	717.6	787.6	845.0	<i>865.3</i>
45°	632.3	677.2	751.8	812.5	<i>832.6</i>
47.5°	591.9	636.9	714.5	778.3	<i>798.4</i>
50°	549.9	596.5	677.2	742.5	<i>762.8</i>
52.5°	504.9	556.1	640.0	705.2	<i>728.6</i>
55°	464.5	515.7	599.6	667.9	<i>691.3</i>
57.5°	422.5	475.3	562.3	627.5	<i>649.3</i>
60°	383.8	434.9	520.5	584.0	<i>608.9</i>
62.5°	341.7	394.5	478.4	540.6	<i>564.0</i>
65°	303.0	354.2	436.6	497.1	<i>518.8</i>
67.5°	264.1	315.4	393.1	450.5	<i>475.3</i>
70°	225.3	276.5	347.9	403.9	<i>425.6</i>
72.5°	191.2	236.1	304.4	355.8	<i>375.9</i>
75°	153.9	198.8	256.4	301.3	<i>310.7</i>
77.5°	119.7	160.1	208.1	228.4	<i>231.5</i>
80°	88.6	119.7	152.2	157.0	<i>157.0</i>
82.5°	59.0	82.4	94.9	96.3	<i>94.9</i>
85°	35.8	43.5	45.1	38.9	<i>35.8</i>
87.5°	12.4	12.4	7.9	4.8	<i>1.7</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



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







(END OF REPORT)