

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: P732052

Luminaire Tested: **22CZ2-39HE-S-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272009)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39HE-S-B2750-W2D-3000K
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

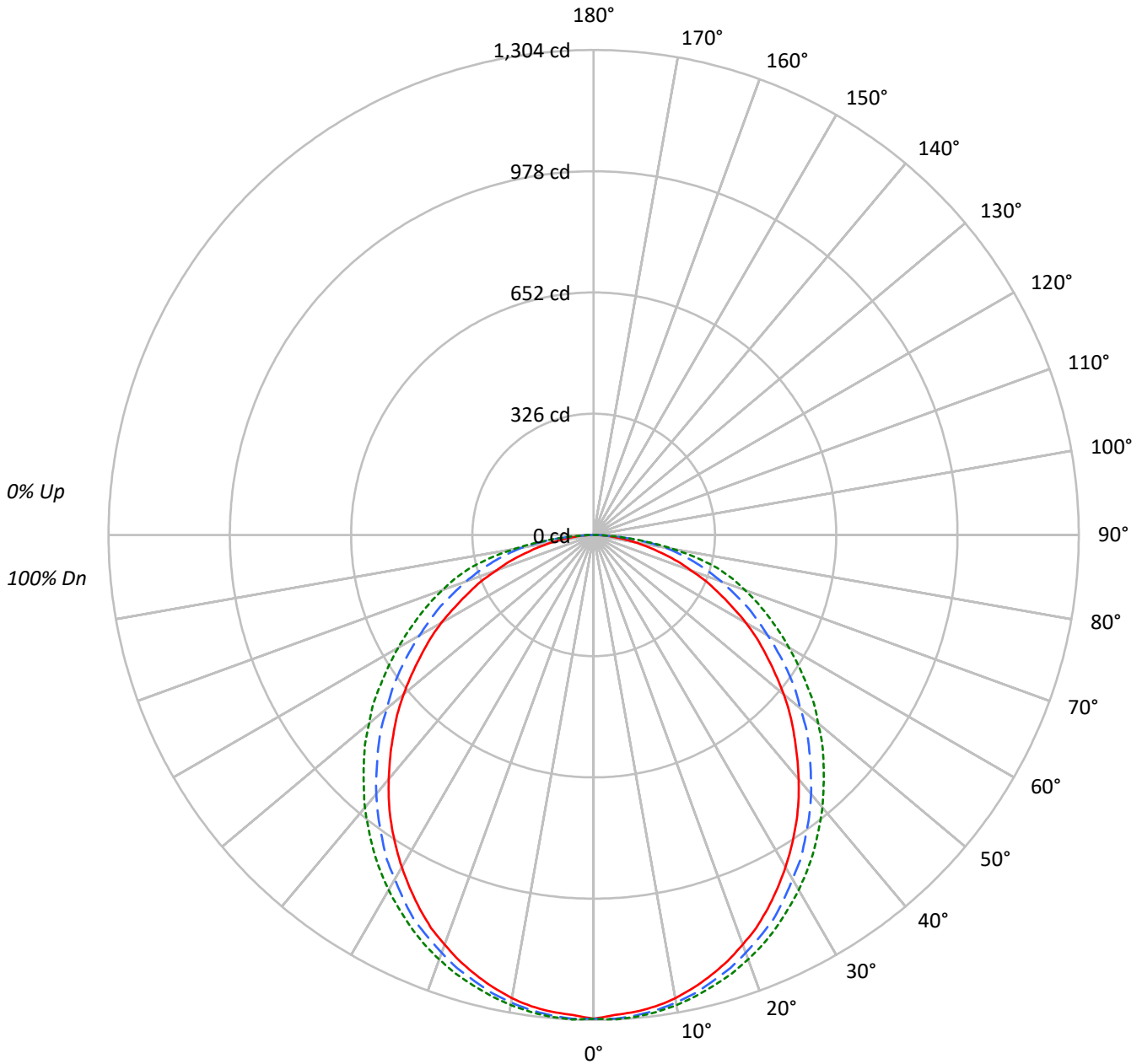
Lumens per Lamp: N/A
Luminaire Lumens: 3630.0 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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									
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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	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	69	60	54	66	59	53	64	57	52	61	56	52	49																			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43																			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37																			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3691	3691	3691
5°	3667	3695	3705
10°	3645	3680	3699
15°	3597	3647	3682
20°	3539	3610	3667
25°	3468	3574	3643
30°	3380	3502	3613
35°	3286	3438	3579
40°	3174	3369	3544
45°	3058	3289	3507
50°	2945	3200	3477
55°	2807	3142	3452
60°	2681	3066	3441
65°	2502	3048	3479
70°	2305	3021	3583
75°	2079	3063	3770
80°	1797	3155	3543
85°	1488	2644	2644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	3.4
10°-20°	350.1	9.6
20°-30°	523.8	14.4
30°-40°	620.3	17.1
40°-50°	632.2	17.4
50°-60°	566.6	15.6
60°-70°	443.6	12.2
70°-80°	286.1	7.9
80°-90°	84.5	2.3
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°	996.9	27.5
0°-40°	1617.2	44.5
0°-60°	2815.9	77.6
0°-90°	3630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1287	1291	1297	1299	1301	122
15°	1225	1231	1241	1252	1253	345
25°	1108	1118	1142	1157	1164	510
35°	948	960	993	1023	1033	593
45°	762	779	820	862	874	589
55°	567	586	635	679	698	509
65°	373	394	454	498	518	370
75°	190	218	279	327	344	203
85°	46	63	81	81	81	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1300.8	1300.8	1300.8	<i>1300.8</i>	1300.8
2.5°	<i>1292.2</i>	<i>1295.7</i>	<i>1302.4</i>	<i>1304.2</i>	<i>1304.2</i>
5°	1287.3	1290.6	1297.3	<i>1299.1</i>	1300.8
7.5°	1278.7	1280.3	1288.9	<i>1292.2</i>	1294.0
10°	1265.2	1268.5	1277.1	<i>1282.2</i>	1283.8
12.5°	1246.5	1251.6	1261.8	<i>1268.5</i>	1270.3
15°	1224.6	1231.4	1241.4	<i>1251.6</i>	1253.4
17.5°	1200.7	1207.7	1221.2	<i>1233.0</i>	1236.5
20°	1172.0	1180.5	1195.6	<i>1209.3</i>	1214.4
22.5°	1143.2	1149.9	1168.7	<i>1185.6</i>	1190.7
25°	1107.7	1117.9	1141.6	<i>1156.9</i>	1163.6
27.5°	1070.3	1082.2	1106.0	<i>1126.2</i>	1133.0
30°	1031.5	1043.4	1068.7	<i>1094.2</i>	1102.6
32.5°	990.7	1004.4	1034.8	<i>1060.3</i>	1068.7
35°	948.5	960.3	992.6	<i>1023.0</i>	1033.2
37.5°	904.4	914.6	951.9	<i>984.0</i>	994.2
40°	857.0	870.5	909.5	<i>946.8</i>	956.8
42.5°	809.5	824.8	863.8	<i>904.4</i>	914.6
45°	762.1	779.1	819.7	<i>862.1</i>	874.0
47.5°	716.4	729.9	775.8	<i>816.4</i>	833.4
50°	667.2	680.9	725.0	<i>770.7</i>	787.6
52.5°	616.4	635.2	682.5	<i>726.6</i>	746.8
55°	567.4	586.0	635.2	<i>679.3</i>	697.8
57.5°	521.7	536.8	587.6	<i>633.3</i>	652.1
60°	472.5	486.2	540.3	<i>589.5</i>	606.4
62.5°	420.0	440.3	496.2	<i>541.9</i>	562.3
65°	372.7	394.5	453.9	<i>498.0</i>	518.2
67.5°	328.6	348.8	406.6	<i>453.9</i>	476.0
70°	277.8	304.9	364.1	<i>411.5</i>	431.9
72.5°	237.2	260.8	321.9	<i>369.2</i>	391.3
75°	189.6	218.4	279.4	<i>327.0</i>	343.9
77.5°	150.8	179.6	237.2	<i>274.3</i>	282.9
80°	110.0	138.8	193.1	<i>211.7</i>	216.8
82.5°	74.5	101.6	138.8	<i>143.9</i>	145.7
85°	45.7	62.7	81.2	<i>81.2</i>	81.2
87.5°	22.0	25.3	28.8	<i>27.1</i>	27.1
90°	0.0	0.0	0.0	<i>0.0</i>	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)