

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: P732056

Luminaire Tested: **22CZ2-39HE-SQR-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732056
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-B2750-W2D-2700K
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

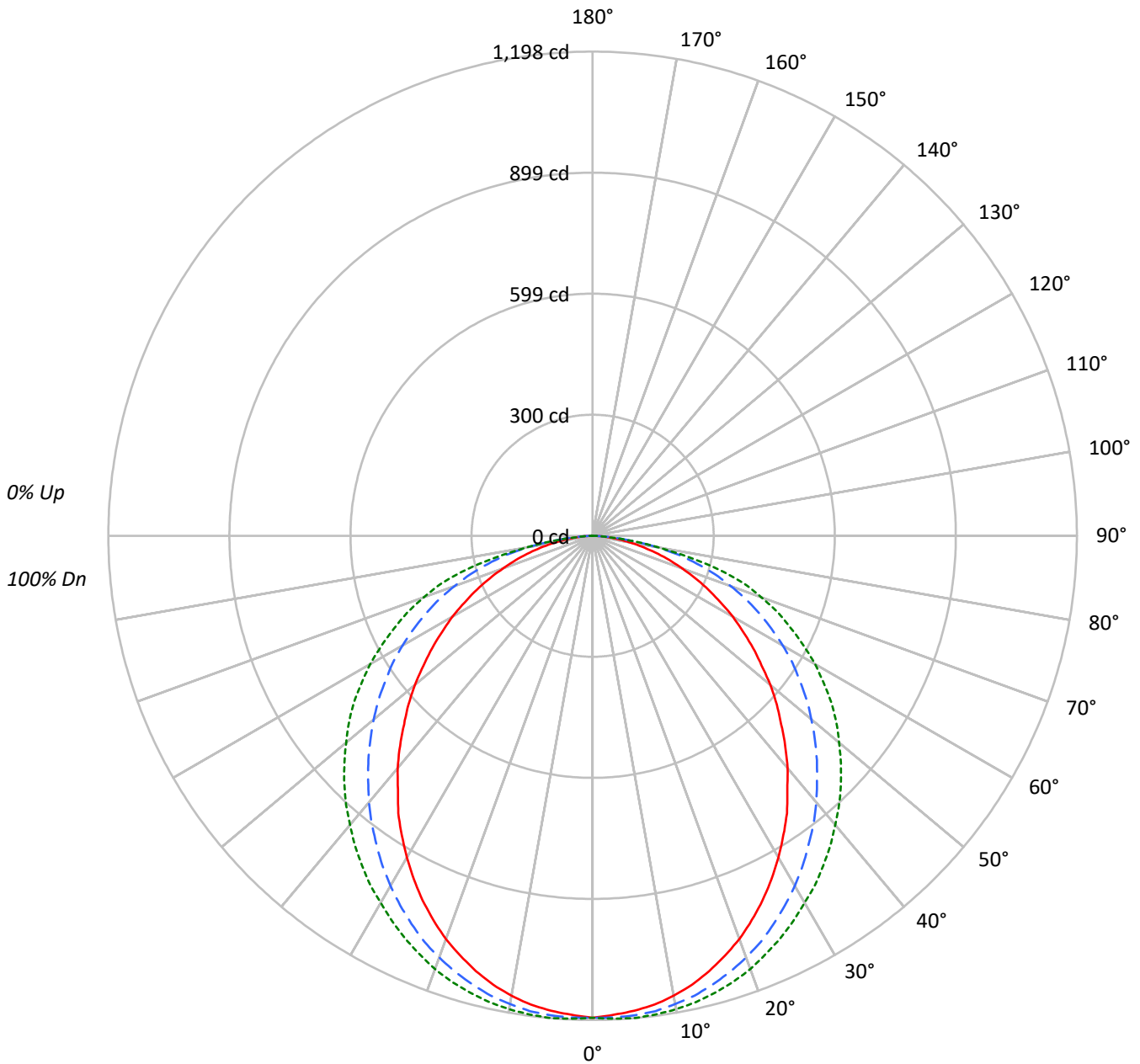
Lumens per Lamp: N/A
Luminaire Lumens: 3415.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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									
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°	3385	3385	3385
5°	3361	3393	3412
10°	3330	3390	3428
15°	3275	3376	3438
20°	3206	3353	3445
25°	3116	3318	3440
30°	3011	3277	3436
35°	2903	3228	3447
40°	2780	3188	3458
45°	2647	3148	3486
50°	2533	3119	3513
55°	2398	3095	3568
60°	2272	3082	3605
65°	2122	3058	3634
70°	1950	3012	3684
75°	1761	2933	3553
80°	1512	2595	2677
85°	1218	1533	1218



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	3.3
10°-20°	323.3	9.5
20°-30°	485.6	14.2
30°-40°	579.2	17.0
40°-50°	598.8	17.5
50°-60°	550.5	16.1
60°-70°	438.3	12.8
70°-80°	267.8	7.8
80°-90°	58.3	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°	922.1	27.0
0°-40°	1501.2	44.0
0°-60°	2650.6	77.6
0°-90°	3415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3415.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1193	1193	1193	1193	1193	
5°	1180	1183	1191	1196	1198	112
15°	1115	1128	1149	1165	1170	314
25°	995	1020	1060	1089	1099	458
35°	838	874	932	981	995	523
45°	660	707	784	848	869	510
55°	485	538	626	697	721	433
65°	316	370	456	519	541	313
75°	161	208	268	314	324	171
85°	37	45	47	41	37	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1192.8	1192.8	1192.8	1192.8	<i>1192.8</i>
2.5°	1186.4	1188.1	1192.8	1196.1	<i>1196.1</i>
5°	<i>1179.9</i>	<i>1183.1</i>	<i>1191.3</i>	<i>1196.1</i>	<i>1197.8</i>
7.5°	1170.2	1175.1	1186.4	1192.8	<i>1194.6</i>
10°	1155.7	1162.2	1176.6	1186.4	<i>1189.6</i>
12.5°	1137.7	1147.5	1165.4	1178.4	<i>1181.6</i>
15°	1115.0	1128.0	1149.2	1165.4	<i>1170.2</i>
17.5°	1089.1	1105.3	1131.3	1150.7	<i>1157.2</i>
20°	1061.7	1077.9	1110.3	1133.0	<i>1141.0</i>
22.5°	1029.3	1050.2	1087.6	1113.5	<i>1120.0</i>
25°	995.1	1019.5	1059.9	1089.1	<i>1098.8</i>
27.5°	957.9	987.1	1030.8	1066.4	<i>1074.6</i>
30°	919.0	949.7	1000.1	1039.0	<i>1048.7</i>
32.5°	878.4	914.1	967.7	1011.3	<i>1024.3</i>
35°	838.0	873.7	932.0	980.6	<i>995.1</i>
37.5°	790.9	833.0	897.9	948.2	<i>965.9</i>
40°	750.5	790.9	860.7	915.8	<i>933.5</i>
42.5°	705.1	748.8	821.8	881.7	<i>902.8</i>
45°	659.7	706.6	784.4	847.7	<i>868.7</i>
47.5°	617.6	664.5	745.5	812.1	<i>833.0</i>
50°	573.7	622.4	706.6	774.7	<i>795.9</i>
52.5°	526.8	580.2	667.7	735.8	<i>760.2</i>
55°	484.7	538.1	625.6	696.9	<i>721.3</i>
57.5°	440.8	495.9	586.7	654.8	<i>677.5</i>
60°	400.4	453.8	543.0	609.4	<i>635.3</i>
62.5°	356.6	411.7	499.2	564.0	<i>588.4</i>
65°	316.1	369.5	455.5	518.6	<i>541.3</i>
67.5°	275.5	329.1	410.1	470.0	<i>495.9</i>
70°	235.1	288.5	363.0	421.4	<i>444.1</i>
72.5°	199.5	246.3	317.7	371.2	<i>392.2</i>
75°	160.6	207.5	267.5	314.4	<i>324.1</i>
77.5°	124.9	167.0	217.2	238.4	<i>241.6</i>
80°	92.5	124.9	158.8	163.8	<i>163.8</i>
82.5°	61.6	86.0	99.0	100.5	<i>99.0</i>
85°	37.4	45.4	47.1	40.6	<i>37.4</i>
87.5°	13.0	13.0	8.2	5.0	<i>1.7</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)