

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: P842959

Luminaire Tested: **22CZ2-39HE-SQR-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842959
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-B35
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

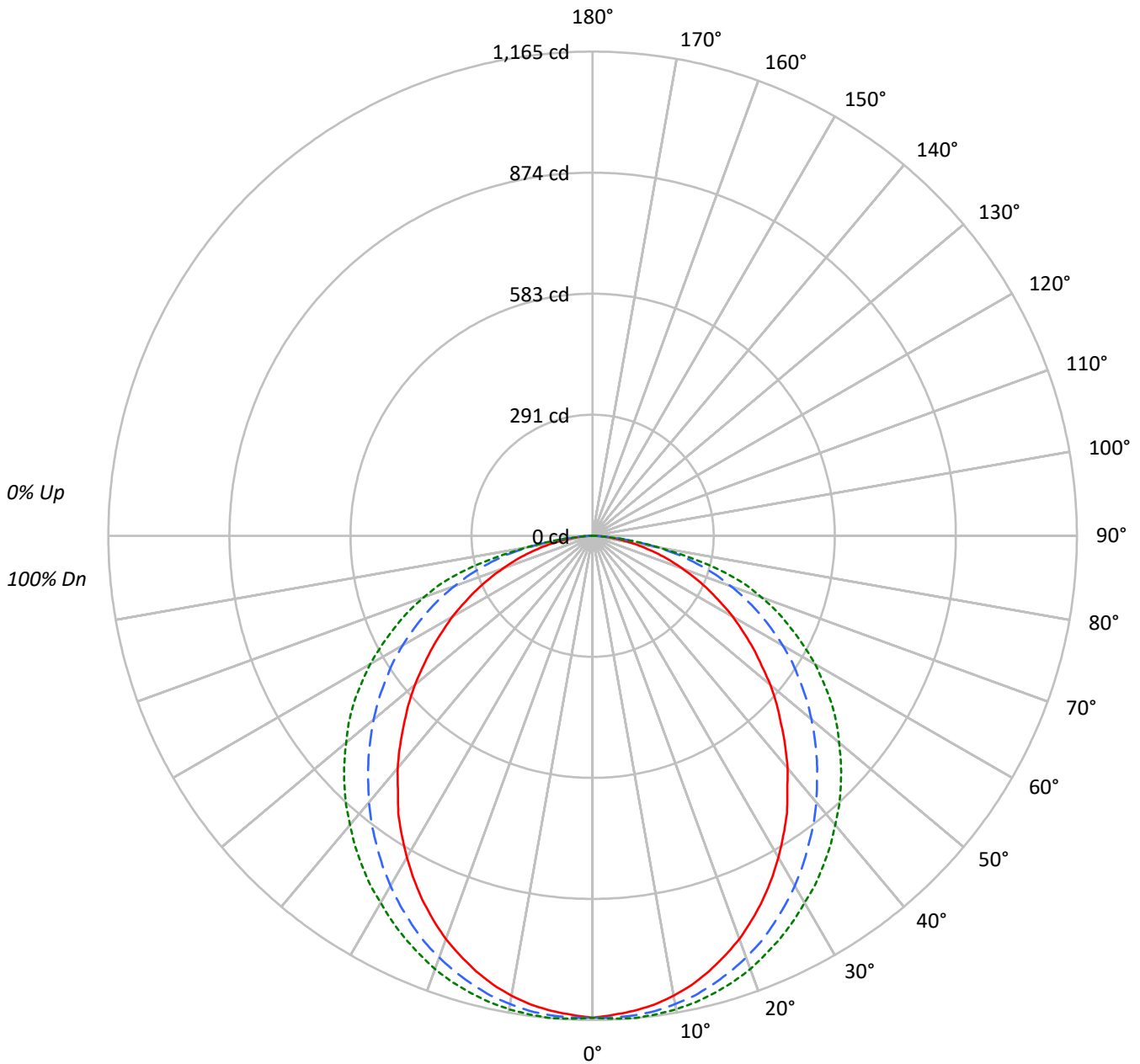
Lumens per Lamp: N/A
Luminaire Lumens: 3321.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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°	3292	3292	3292
5°	3268	3300	3318
10°	3238	3297	3333
15°	3186	3283	3343
20°	3117	3260	3351
25°	3030	3227	3346
30°	2929	3187	3341
35°	2823	3140	3352
40°	2703	3100	3363
45°	2575	3061	3390
50°	2463	3034	3417
55°	2332	3010	3470
60°	2210	2997	3506
65°	2064	2974	3534
70°	1897	2929	3583
75°	1711	2853	3456
80°	1469	2525	2603
85°	1185	1491	1185



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	3.3
10°-20°	314.4	9.5
20°-30°	472.3	14.2
30°-40°	563.2	17.0
40°-50°	582.3	17.5
50°-60°	535.4	16.1
60°-70°	426.2	12.8
70°-80°	260.4	7.8
80°-90°	56.7	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°	896.7	27.0
0°-40°	1459.9	44.0
0°-60°	2577.6	77.6
0°-90°	3321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3321.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1160	1160	1160	1160	1160	
5°	1147	1150	1158	1163	1165	109
15°	1084	1097	1118	1133	1138	305
25°	968	992	1031	1059	1069	445
35°	815	850	906	954	968	508
45°	642	687	763	824	845	496
55°	471	523	608	678	702	422
65°	307	359	443	504	526	304
75°	156	202	260	306	315	166
85°	36	44	46	40	36	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1160.0	1160.0	1160.0	1160.0	<i>1160.0</i>
2.5°	1153.7	1155.4	1160.0	1163.2	<i>1163.2</i>
5°	<i>1147.4</i>	<i>1150.5</i>	<i>1158.5</i>	<i>1163.2</i>	<i>1164.8</i>
7.5°	1137.9	1142.8	1153.7	1160.0	<i>1161.7</i>
10°	1123.9	1130.2	1144.2	1153.7	<i>1156.9</i>
12.5°	1106.4	1115.9	1133.3	1145.9	<i>1149.1</i>
15°	1084.4	1097.0	1117.6	1133.3	<i>1137.9</i>
17.5°	1059.1	1074.9	1100.1	1119.0	<i>1125.3</i>
20°	1032.4	1048.2	1079.7	1101.8	<i>1109.6</i>
22.5°	1000.9	1021.3	1057.7	1082.9	<i>1089.2</i>
25°	967.7	991.5	1030.8	1059.1	<i>1068.6</i>
27.5°	931.6	959.9	1002.4	1037.1	<i>1045.1</i>
30°	893.8	923.6	972.6	1010.4	<i>1019.8</i>
32.5°	854.2	888.9	941.0	983.5	<i>996.1</i>
35°	814.9	849.6	906.4	953.6	<i>967.7</i>
37.5°	769.1	810.1	873.2	922.1	<i>939.4</i>
40°	729.8	769.1	837.0	890.6	<i>907.8</i>
42.5°	685.7	728.2	799.2	857.4	<i>878.0</i>
45°	641.6	687.2	762.8	824.4	<i>844.8</i>
47.5°	600.6	646.2	725.0	789.7	<i>810.1</i>
50°	557.9	605.2	687.2	753.4	<i>774.0</i>
52.5°	512.3	564.2	649.4	715.5	<i>739.3</i>
55°	471.4	523.3	608.4	677.7	<i>701.5</i>
57.5°	428.7	482.3	570.5	636.7	<i>658.8</i>
60°	389.4	441.3	528.1	592.6	<i>617.8</i>
62.5°	346.7	400.3	485.4	548.5	<i>572.2</i>
65°	307.4	359.3	443.0	504.4	<i>526.4</i>
67.5°	267.9	320.1	398.9	457.1	<i>482.3</i>
70°	228.6	280.5	353.0	409.8	<i>431.9</i>
72.5°	194.0	239.6	308.9	361.0	<i>381.4</i>
75°	156.1	201.7	260.2	305.8	<i>315.2</i>
77.5°	121.5	162.4	211.2	231.8	<i>234.9</i>
80°	89.9	121.5	154.5	159.3	<i>159.3</i>
82.5°	59.9	83.6	96.2	97.7	<i>96.2</i>
85°	36.4	44.1	45.8	39.5	<i>36.4</i>
87.5°	12.6	12.6	8.0	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)