

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: P732057

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732057
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-3000K
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

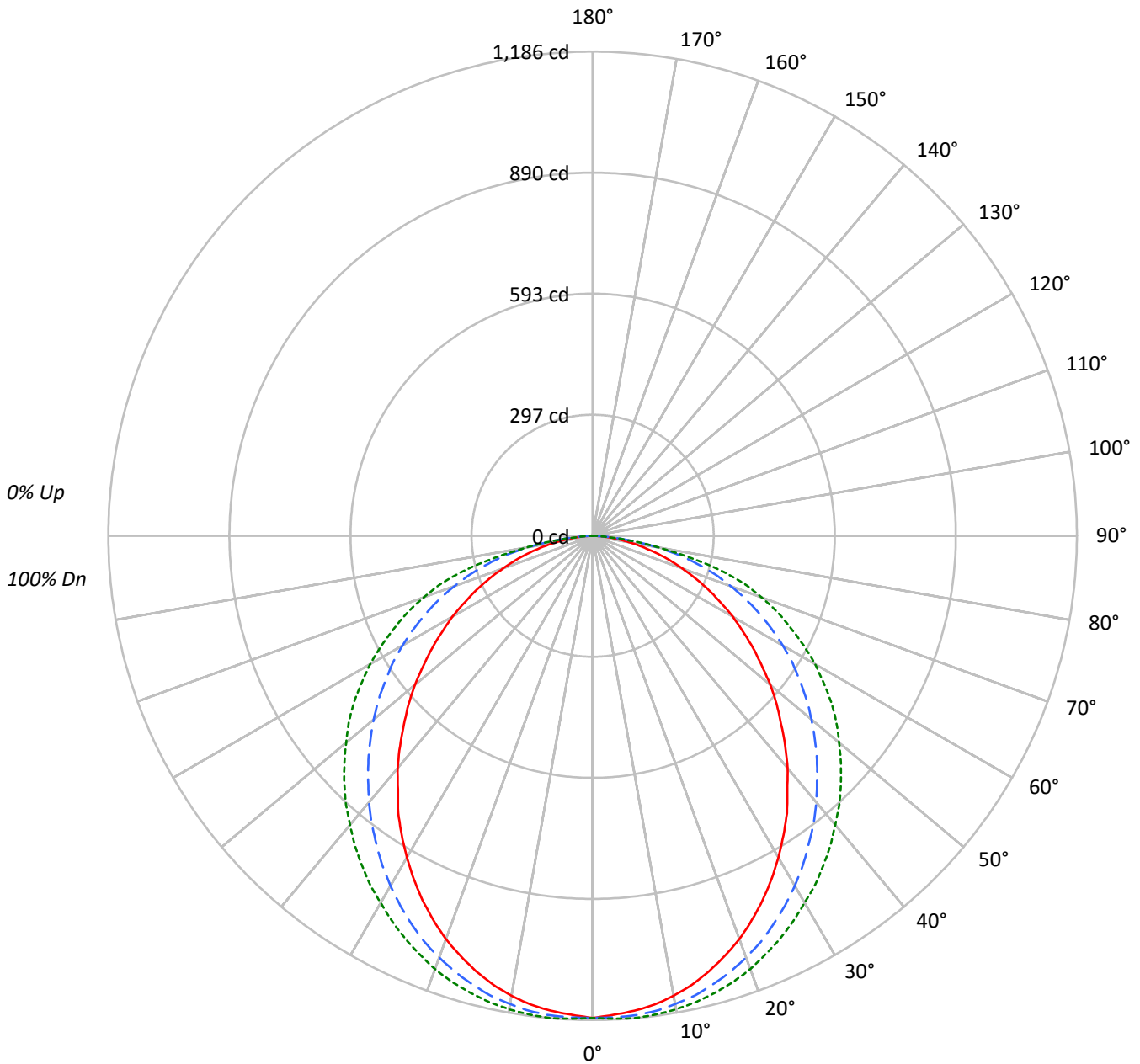
Lumens per Lamp: N/A
Luminaire Lumens: 3381.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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				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°	3351	3351	3351
5°	3327	3360	3378
10°	3297	3356	3394
15°	3243	3342	3403
20°	3174	3319	3411
25°	3085	3286	3406
30°	2981	3244	3402
35°	2874	3196	3413
40°	2752	3156	3423
45°	2621	3116	3451
50°	2507	3088	3479
55°	2374	3064	3533
60°	2250	3051	3570
65°	2102	3028	3598
70°	1931	2982	3648
75°	1743	2904	3518
80°	1497	2569	2650
85°	1205	1517	1205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	3.3
10°-20°	320.1	9.5
20°-30°	480.8	14.2
30°-40°	573.4	17.0
40°-50°	592.9	17.5
50°-60°	545.1	16.1
60°-70°	433.9	12.8
70°-80°	265.2	7.8
80°-90°	57.7	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°	912.9	27.0
0°-40°	1486.3	44.0
0°-60°	2624.2	77.6
0°-90°	3381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1168	1171	1180	1184	1186	111
15°	1104	1117	1138	1154	1158	311
25°	985	1009	1049	1078	1088	453
35°	830	865	923	971	985	518
45°	653	700	777	839	860	505
55°	480	533	619	690	714	429
65°	313	366	451	514	536	310
75°	159	205	265	311	321	169
85°	37	45	47	40	37	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1181.0	1181.0	1181.0	1181.0	<i>1181.0</i>
2.5°	1174.5	1176.3	1181.0	1184.2	<i>1184.2</i>
5°	<i>1168.1</i>	<i>1171.3</i>	<i>1179.5</i>	<i>1184.2</i>	<i>1185.9</i>
7.5°	1158.5	1163.4	1174.5	1181.0	<i>1182.7</i>
10°	1144.2	1150.6	1164.9	1174.5	<i>1177.8</i>
12.5°	1126.4	1136.0	1153.8	1166.6	<i>1169.8</i>
15°	1103.9	1116.8	1137.7	1153.8	<i>1158.5</i>
17.5°	1078.3	1094.3	1120.0	1139.2	<i>1145.7</i>
20°	1051.1	1067.1	1099.2	1121.7	<i>1129.6</i>
22.5°	1019.0	1039.8	1076.8	1102.4	<i>1108.9</i>
25°	985.2	1009.4	1049.4	1078.3	<i>1087.9</i>
27.5°	948.4	977.3	1020.5	1055.8	<i>1063.9</i>
30°	909.9	940.3	990.1	1028.6	<i>1038.3</i>
32.5°	869.7	905.0	958.0	1001.3	<i>1014.1</i>
35°	829.7	865.0	922.7	970.9	<i>985.2</i>
37.5°	783.0	824.7	888.9	938.8	<i>956.3</i>
40°	743.0	783.0	852.1	906.7	<i>924.2</i>
42.5°	698.1	741.3	813.6	872.9	<i>893.9</i>
45°	653.2	699.6	776.6	839.3	<i>860.0</i>
47.5°	611.4	657.9	738.1	804.0	<i>824.7</i>
50°	568.0	616.2	699.6	767.0	<i>788.0</i>
52.5°	521.6	574.4	661.1	728.5	<i>752.7</i>
55°	479.9	532.7	619.4	690.0	<i>714.1</i>
57.5°	436.4	491.0	580.9	648.2	<i>670.7</i>
60°	396.4	449.3	537.6	603.3	<i>629.0</i>
62.5°	353.0	407.6	494.2	558.4	<i>582.6</i>
65°	313.0	365.8	451.0	513.5	<i>535.9</i>
67.5°	272.8	325.8	406.1	465.3	<i>491.0</i>
70°	232.8	285.6	359.4	417.2	<i>439.7</i>
72.5°	197.5	243.9	314.5	367.6	<i>388.3</i>
75°	159.0	205.4	264.9	311.3	<i>320.9</i>
77.5°	123.7	165.4	215.0	236.0	<i>239.2</i>
80°	91.6	123.7	157.2	162.2	<i>162.2</i>
82.5°	61.0	85.1	98.0	99.5	<i>98.0</i>
85°	37.0	44.9	46.6	40.2	<i>37.0</i>
87.5°	12.8	12.8	8.1	4.9	<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)