

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: P881101

Luminaire Tested: **22CZ2-34VHE-SQR-UNV-B35**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P881101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475230)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34VHE-SQR-UNV-B35
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

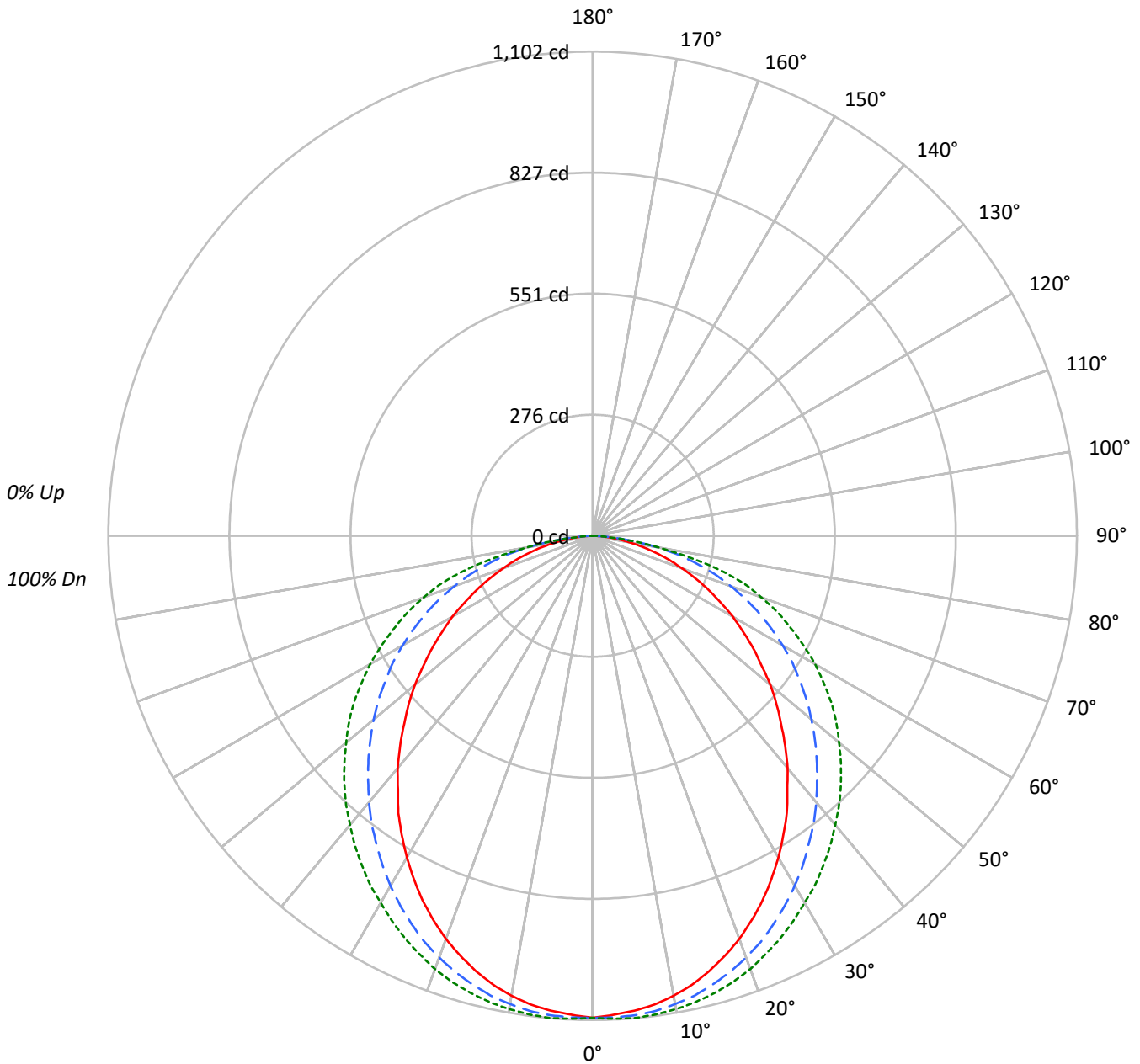
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3141.0 lumens
Efficiency: N/A
Efficacy: 116.3 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): 27
Input Voltage (V): NR
Input Current (Ain): 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°	3113	3113	3113
5°	3091	3121	3138
10°	3063	3119	3153
15°	3013	3105	3162
20°	2948	3084	3169
25°	2866	3053	3165
30°	2769	3014	3160
35°	2669	2969	3171
40°	2557	2933	3181
45°	2435	2895	3207
50°	2330	2869	3231
55°	2205	2847	3282
60°	2090	2835	3317
65°	1951	2813	3343
70°	1792	2769	3388
75°	1619	2696	3268
80°	1387	2389	2459
85°	1117	1406	1117



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	3.3
10°-20°	297.4	9.5
20°-30°	446.7	14.2
30°-40°	532.7	17.0
40°-50°	550.8	17.5
50°-60°	506.4	16.1
60°-70°	403.1	12.8
70°-80°	246.3	7.8
80°-90°	53.5	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°	848.1	27.0
0°-40°	1380.9	44.0
0°-60°	2438.1	77.6
0°-90°	3141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1097	1097	1097	1097	1097	
5°	1085	1088	1096	1100	1102	103
15°	1026	1038	1057	1072	1076	289
25°	915	938	975	1002	1011	421
35°	771	804	857	902	915	481
45°	607	650	722	780	799	469
55°	446	495	575	641	664	399
65°	291	340	419	477	498	288
75°	148	191	246	289	298	157
85°	34	42	43	37	34	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1097.2	1097.2	1097.2	1097.2	1097.2
2.5°	1091.3	1092.6	1097.2	1100.2	1100.2
5°	1085.2	1088.3	1095.7	1100.2	1101.8
7.5°	1076.4	1080.8	1091.3	1097.2	1098.9
10°	1062.9	1069.0	1082.4	1091.3	1094.2
12.5°	1046.6	1055.5	1071.9	1083.9	1086.7
15°	1025.8	1037.6	1056.9	1071.9	1076.4
17.5°	1001.8	1016.7	1040.7	1058.6	1064.5
20°	976.4	991.4	1021.3	1042.0	1049.4
22.5°	946.7	966.1	1000.3	1024.3	1030.2
25°	915.4	937.7	975.0	1001.8	1010.8
27.5°	881.0	908.0	948.2	981.1	988.5
30°	845.2	873.6	919.8	955.6	964.5
32.5°	807.9	840.8	889.9	930.3	942.3
35°	770.6	803.5	857.2	902.1	915.4
37.5°	727.4	766.2	826.0	872.2	888.4
40°	690.3	727.4	791.7	842.4	858.7
42.5°	648.4	688.8	755.9	811.0	830.4
45°	606.7	650.0	721.5	779.7	799.1
47.5°	567.9	611.1	685.7	747.0	766.2
50°	527.8	572.5	650.0	712.6	732.0
52.5°	484.6	533.7	614.2	676.8	699.2
55°	445.7	494.8	575.4	641.0	663.5
57.5°	405.4	456.2	539.7	602.4	623.3
60°	368.3	417.4	499.6	560.5	584.5
62.5°	327.9	378.6	459.1	518.8	541.3
65°	290.6	339.9	418.9	477.1	497.9
67.5°	253.3	302.8	377.0	432.4	456.2
70°	216.0	265.5	333.8	387.7	408.4
72.5°	183.5	226.7	292.1	341.4	360.8
75°	147.7	190.9	245.9	289.1	298.1
77.5°	114.8	153.6	199.8	219.1	222.3
80°	84.9	114.8	146.2	150.5	150.5
82.5°	56.5	79.0	91.0	92.3	91.0
85°	34.3	41.7	43.2	37.3	34.3
87.5°	11.8	11.8	7.4	4.4	1.5
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)