

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: P880712

Luminaire Tested: **22CZ2-34VHE-S-B2750-W2D-2700K**

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: P880712
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-S-B2750-W2D-2700K
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

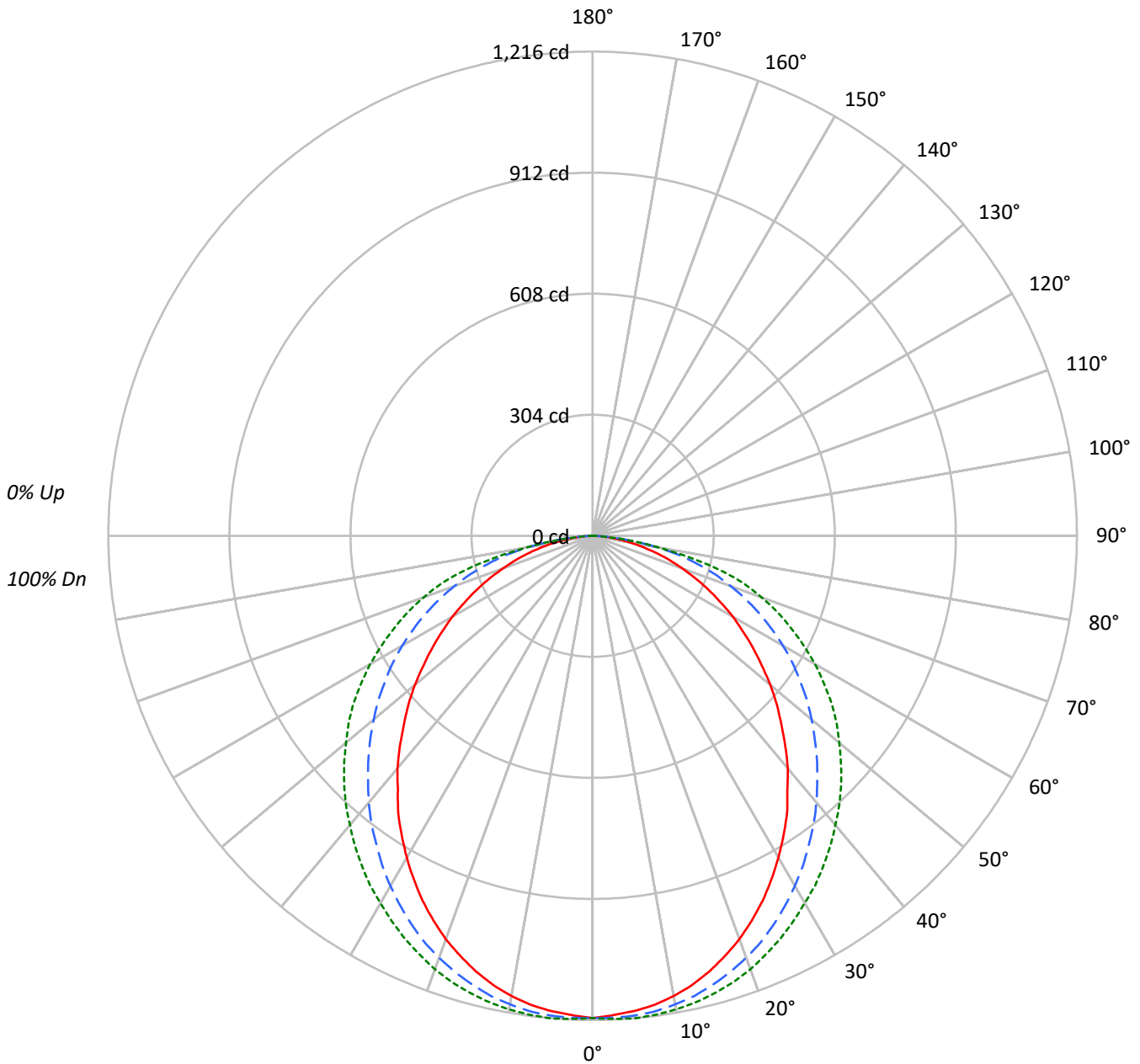
Lumens per Lamp: N/A
Luminaire Lumens: 3468.0 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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°	3437	3437	3437
5°	3413	3446	3465
10°	3382	3443	3481
15°	3327	3428	3491
20°	3255	3405	3499
25°	3164	3370	3494
30°	3058	3328	3489
35°	2948	3278	3501
40°	2823	3238	3512
45°	2688	3197	3541
50°	2572	3168	3568
55°	2434	3143	3624
60°	2307	3130	3662
65°	2155	3105	3691
70°	1979	3058	3742
75°	1788	2977	3608
80°	1531	2637	2716
85°	1231	1553	1231



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	3.3
10°-20°	328.4	9.5
20°-30°	493.2	14.2
30°-40°	588.2	17.0
40°-50°	608.1	17.5
50°-60°	559.1	16.1
60°-70°	445.1	12.8
70°-80°	272.0	7.8
80°-90°	59.1	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°	936.4	27.0
0°-40°	1524.6	44.0
0°-60°	2691.9	77.6
0°-90°	3468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3468.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1198	1202	1210	1215	1216	114
15°	1133	1146	1167	1184	1188	319
25°	1011	1035	1076	1106	1116	465
35°	851	887	946	996	1011	531
45°	670	718	797	861	882	518
55°	492	546	635	708	732	440
65°	321	375	462	527	550	318
75°	163	211	272	319	329	174
85°	38	46	48	41	38	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1211.4	1211.4	1211.4	1211.4	1211.4
2.5°	1204.9	1206.4	1211.4	1214.8	1214.8
5°	1198.2	1201.6	1209.8	1214.8	1216.5
7.5°	1188.5	1193.4	1204.9	1211.4	1213.3
10°	1173.6	1180.3	1195.0	1204.9	1208.1
12.5°	1155.5	1165.4	1183.5	1196.7	1199.9
15°	1132.6	1145.7	1166.9	1183.5	1188.5
17.5°	1106.1	1122.5	1149.0	1168.8	1175.3
20°	1078.0	1094.6	1127.6	1150.5	1158.7
22.5°	1045.2	1066.6	1104.5	1130.9	1137.5
25°	1010.7	1035.3	1076.5	1106.1	1116.0
27.5°	972.7	1002.5	1046.9	1083.2	1091.4
30°	933.2	964.5	1015.6	1055.1	1065.0
32.5°	892.0	928.4	982.6	1027.1	1040.4
35°	850.9	887.2	946.4	996.0	1010.7
37.5°	803.1	846.0	912.0	963.0	980.9
40°	762.2	803.1	874.1	930.0	948.1
42.5°	715.9	760.5	834.6	895.4	916.8
45°	669.9	717.6	796.6	860.9	882.3
47.5°	627.1	674.8	757.1	824.8	846.0
50°	582.7	632.1	717.6	786.8	808.2
52.5°	535.0	589.2	678.1	747.2	772.0
55°	492.1	546.4	635.3	707.7	732.5
57.5°	447.6	503.7	595.9	665.1	688.2
60°	406.6	460.8	551.6	618.9	645.3
62.5°	362.1	418.0	506.9	572.8	597.6
65°	320.9	375.3	462.5	526.8	549.7
67.5°	279.7	334.3	416.3	477.4	503.7
70°	238.5	293.1	368.6	428.0	451.0
72.5°	202.6	250.3	322.6	377.0	398.4
75°	163.1	210.8	271.5	319.2	329.1
77.5°	126.7	169.6	220.6	241.9	245.4
80°	93.7	126.7	161.4	166.2	166.2
82.5°	62.4	87.2	100.4	101.9	100.4
85°	37.8	46.0	47.7	41.2	37.8
87.5°	13.0	13.0	8.2	4.8	1.7
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)