

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: P880713

Luminaire Tested: **22CZ2-34VHE-S-B2750-W2D-3000K**

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: P880713
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-3000K
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

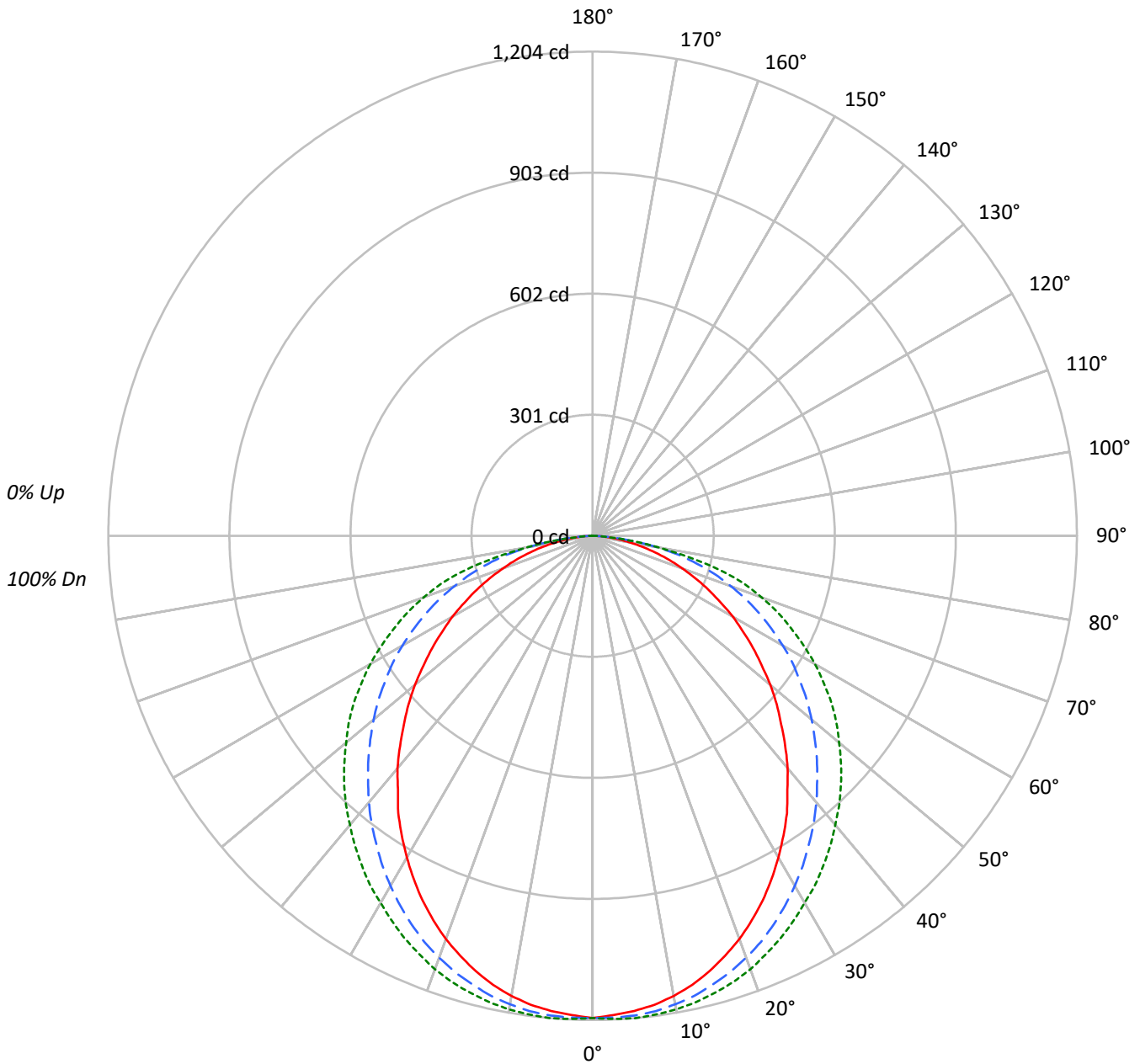
Lumens per Lamp: N/A
Luminaire Lumens: 3433.0 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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°	3403	3403	3403
5°	3378	3411	3430
10°	3348	3409	3446
15°	3294	3393	3456
20°	3222	3371	3464
25°	3132	3337	3459
30°	3027	3294	3454
35°	2918	3245	3466
40°	2795	3205	3477
45°	2661	3165	3505
50°	2546	3136	3532
55°	2410	3111	3587
60°	2284	3099	3625
65°	2132	3074	3654
70°	1959	3027	3704
75°	1769	2947	3572
80°	1516	2610	2688
85°	1218	1537	1218



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	3.3
10°-20°	325.1	9.5
20°-30°	488.2	14.2
30°-40°	582.3	17.0
40°-50°	602.0	17.5
50°-60°	553.5	16.1
60°-70°	440.6	12.8
70°-80°	269.2	7.8
80°-90°	58.5	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°	927.0	27.0
0°-40°	1509.2	44.0
0°-60°	2664.7	77.6
0°-90°	3433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1186	1189	1198	1202	1204	112
15°	1121	1134	1155	1172	1176	316
25°	1000	1025	1066	1095	1105	460
35°	842	878	937	986	1000	525
45°	663	710	789	852	873	513
55°	487	541	629	701	725	436
65°	318	372	458	522	544	315
75°	161	209	269	316	326	172
85°	37	46	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°	1199.2	1199.2	1199.2	1199.2	<i>1199.2</i>
2.5°	1192.7	1194.2	1199.2	1202.5	<i>1202.5</i>
5°	<i>1186.1</i>	<i>1189.4</i>	<i>1197.5</i>	<i>1202.5</i>	<i>1204.2</i>
7.5°	1176.5	1181.3	1192.7	1199.2	<i>1201.0</i>
10°	1161.8	1168.4	1183.0	1192.7	<i>1195.9</i>
12.5°	1143.9	1153.6	1171.5	1184.6	<i>1187.8</i>
15°	1121.2	1134.1	1155.1	1171.5	<i>1176.5</i>
17.5°	1095.0	1111.2	1137.4	1157.0	<i>1163.4</i>
20°	1067.1	1083.5	1116.2	1138.9	<i>1147.0</i>
22.5°	1034.7	1055.9	1093.3	1119.5	<i>1126.0</i>
25°	1000.5	1024.9	1065.7	1095.0	<i>1104.8</i>
27.5°	962.9	992.4	1036.3	1072.3	<i>1080.4</i>
30°	923.8	954.8	1005.3	1044.4	<i>1054.2</i>
32.5°	883.0	919.0	972.7	1016.8	<i>1029.9</i>
35°	842.3	878.2	936.9	986.0	<i>1000.5</i>
37.5°	795.0	837.5	902.8	953.3	<i>971.0</i>
40°	754.5	795.0	865.3	920.7	<i>938.6</i>
42.5°	708.7	752.8	826.2	886.4	<i>907.6</i>
45°	663.2	710.4	788.6	852.2	<i>873.4</i>
47.5°	620.7	667.9	749.5	816.4	<i>837.5</i>
50°	576.8	625.7	710.4	778.8	<i>800.0</i>
52.5°	529.6	583.3	671.3	739.7	<i>764.2</i>
55°	487.2	540.9	628.8	700.6	<i>725.1</i>
57.5°	443.1	498.6	589.9	658.4	<i>681.2</i>
60°	402.5	456.2	546.0	612.6	<i>638.8</i>
62.5°	358.4	413.8	501.7	567.0	<i>591.6</i>
65°	317.6	371.5	457.8	521.5	<i>544.2</i>
67.5°	276.9	330.9	412.1	472.6	<i>498.6</i>
70°	236.1	290.2	364.9	423.7	<i>446.4</i>
72.5°	200.5	247.7	319.3	373.2	<i>394.4</i>
75°	161.4	208.6	268.8	316.0	<i>325.8</i>
77.5°	125.4	167.9	218.4	239.4	<i>242.9</i>
80°	92.8	125.4	159.7	164.5	<i>164.5</i>
82.5°	61.8	86.3	99.4	100.9	<i>99.4</i>
85°	37.4	45.6	47.2	40.8	<i>37.4</i>
87.5°	12.9	12.9	8.1	4.8	<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)