

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: P881106

Luminaire Tested: **22CZ2-34VHE-UNV-B50**

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: P881106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474795)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34VHE-UNV-B50
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

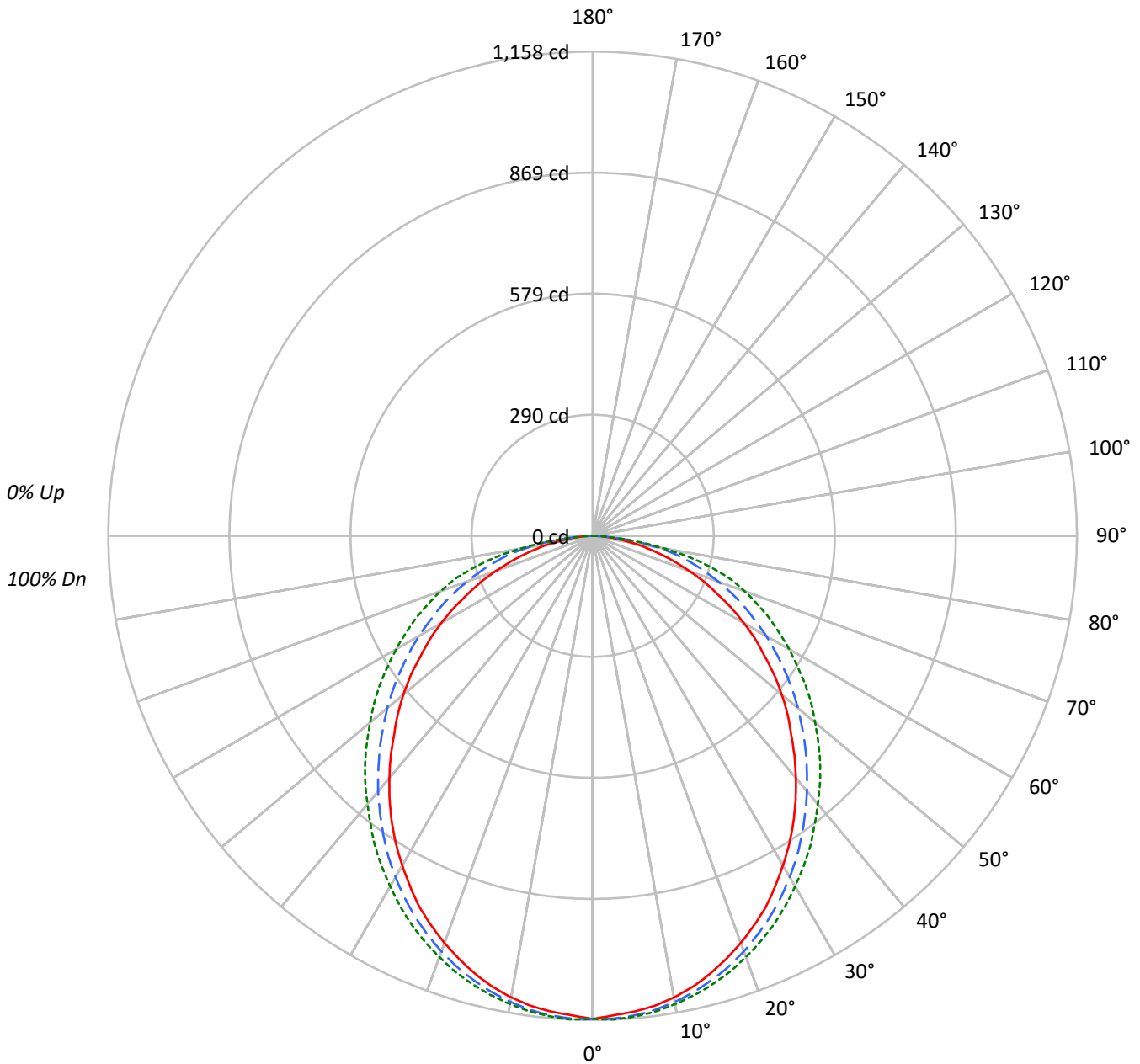
Lumens per Lamp: N/A
Luminaire Lumens: 3186.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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	77	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3279	3279	3279
5°	3255	3280	3287
10°	3230	3261	3277
15°	3186	3232	3262
20°	3129	3194	3237
25°	3067	3146	3211
30°	2983	3089	3172
35°	2899	3023	3142
40°	2801	2956	3103
45°	2694	2888	3088
50°	2607	2830	3064
55°	2484	2768	3071
60°	2373	2720	3080
65°	2206	2685	3129
70°	2039	2647	3206
75°	1824	2637	3227
80°	1528	2498	2816
85°	1185	1713	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	3.4
10°-20°	309.9	9.7
20°-30°	462.0	14.5
30°-40°	545.4	17.1
40°-50°	555.9	17.4
50°-60°	501.3	15.7
60°-70°	394.0	12.4
70°-80°	246.7	7.7
80°-90°	61.5	1.9
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°	881.1	27.7
0°-40°	1426.5	44.8
0°-60°	2483.7	78.0
0°-90°	3186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1143	1145	1151	1154	1154	108
15°	1085	1089	1100	1108	1110	306
25°	980	987	1005	1020	1026	450
35°	837	848	873	897	907	523
45°	671	686	720	755	770	519
55°	502	518	560	602	621	451
65°	328	349	400	444	466	328
75°	166	191	240	284	294	177
85°	36	46	53	53	49	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1155.5	1155.5	1155.5	<i>1155.5</i>	1155.5
2.5°	<i>1147.9</i>	<i>1150.8</i>	<i>1156.1</i>	<i>1158.1</i>	<i>1158.1</i>
5°	1142.6	1145.3	1151.4	<i>1154.1</i>	1154.1
7.5°	1133.8	1136.5	1144.0	<i>1147.3</i>	1147.9
10°	1121.1	1124.4	1131.8	<i>1137.3</i>	1137.3
12.5°	1104.9	1108.2	1117.7	<i>1124.4</i>	1125.0
15°	1084.7	1089.4	1100.2	<i>1108.2</i>	1110.3
17.5°	1061.2	1068.5	1080.6	<i>1090.8</i>	1092.9
20°	1036.2	1043.6	1057.7	<i>1069.2</i>	1072.0
22.5°	1008.6	1015.3	1032.1	<i>1046.4</i>	1049.7
25°	979.7	987.1	1004.7	<i>1020.0</i>	1025.5
27.5°	945.3	954.1	975.0	<i>992.4</i>	997.9
30°	910.3	921.2	942.7	<i>962.1</i>	968.2
32.5°	874.7	884.7	908.9	<i>929.8</i>	937.9
35°	836.9	847.7	872.7	<i>896.8</i>	907.0
37.5°	797.2	808.0	835.0	<i>862.5</i>	871.9
40°	756.2	768.9	797.9	<i>827.5</i>	837.7
42.5°	714.4	727.8	758.1	<i>791.2</i>	804.5
45°	671.3	686.0	719.8	<i>754.8</i>	769.5
47.5°	632.2	644.3	679.4	<i>717.7</i>	731.9
50°	590.5	601.9	641.0	<i>679.4</i>	694.2
52.5°	548.1	558.9	600.7	<i>641.0</i>	659.2
55°	502.2	517.8	559.5	<i>602.5</i>	620.7
57.5°	461.9	476.0	519.2	<i>562.8</i>	580.4
60°	418.1	432.9	479.3	<i>523.9</i>	542.7
62.5°	374.3	390.5	437.6	<i>485.5</i>	503.0
65°	328.5	348.7	399.9	<i>444.3</i>	466.0
67.5°	289.6	309.0	359.6	<i>406.0</i>	424.9
70°	245.8	268.7	319.1	<i>366.3</i>	386.4
72.5°	204.7	227.6	279.4	<i>326.6</i>	346.7
75°	166.4	191.2	240.5	<i>283.5</i>	294.3
77.5°	129.3	152.9	202.0	<i>227.0</i>	238.4
80°	93.5	116.5	152.9	<i>169.7</i>	172.3
82.5°	63.3	82.9	103.7	<i>108.5</i>	105.8
85°	36.4	46.5	52.6	<i>52.6</i>	49.1
87.5°	14.8	14.8	12.9	<i>8.0</i>	4.7
90°	0.0	0.0	0.0	<i>0.0</i>	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)