

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: P881098

Luminaire Tested: **22CZ2-34VHE-S-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: P881098
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-UNV-B35
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

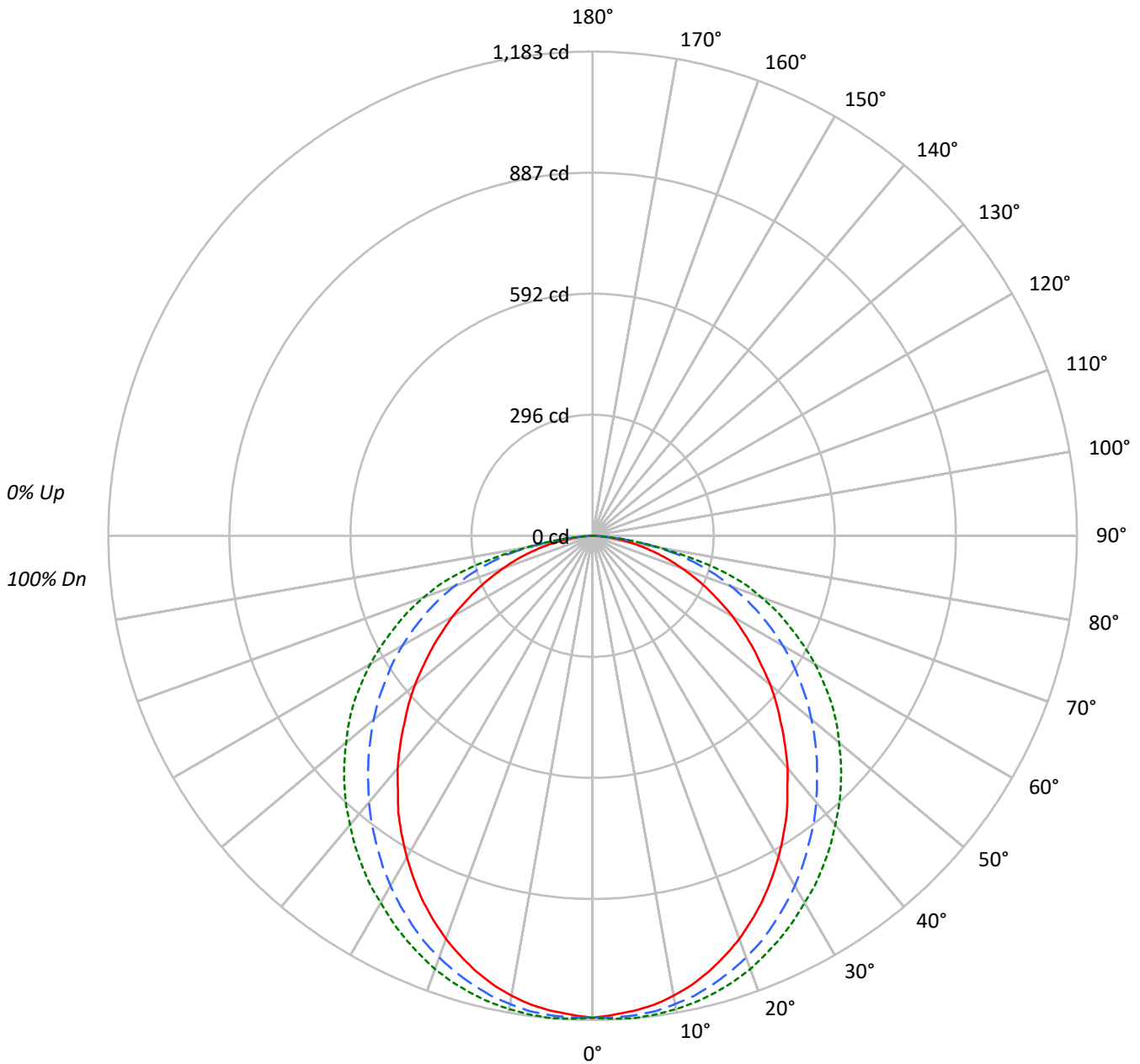
Lumens per Lamp: N/A
Luminaire Lumens: 3372.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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					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°	3342	3342	3342
5°	3318	3351	3369
10°	3288	3348	3384
15°	3235	3333	3395
20°	3165	3311	3402
25°	3077	3277	3397
30°	2973	3236	3393
35°	2866	3188	3404
40°	2745	3148	3415
45°	2614	3108	3443
50°	2501	3080	3469
55°	2367	3056	3523
60°	2244	3044	3561
65°	2095	3019	3589
70°	1924	2973	3638
75°	1738	2894	3508
80°	1489	2564	2641
85°	1198	1511	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	3.3
10°-20°	319.3	9.5
20°-30°	479.5	14.2
30°-40°	571.9	17.0
40°-50°	591.3	17.5
50°-60°	543.6	16.1
60°-70°	432.8	12.8
70°-80°	264.4	7.8
80°-90°	57.4	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°	910.5	27.0
0°-40°	1482.4	44.0
0°-60°	2617.4	77.6
0°-90°	3372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1165	1168	1176	1181	1183	110
15°	1101	1114	1135	1151	1156	310
25°	983	1007	1047	1076	1085	452
35°	827	863	920	968	983	516
45°	651	698	775	837	858	504
55°	478	531	618	688	712	428
65°	312	365	450	512	534	309
75°	158	205	264	310	320	169
85°	37	45	46	40	37	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1177.9	1177.9	1177.9	1177.9	<i>1177.9</i>
2.5°	1171.6	1173.0	1177.9	1181.2	<i>1181.2</i>
5°	<i>1165.0</i>	<i>1168.3</i>	<i>1176.3</i>	<i>1181.2</i>	<i>1182.8</i>
7.5°	1155.6	1160.3	1171.6	1177.9	<i>1179.7</i>
10°	1141.1	1147.6	1162.0	1171.6	<i>1174.6</i>
12.5°	1123.5	1133.1	1150.7	1163.6	<i>1166.7</i>
15°	1101.3	1113.9	1134.6	1150.7	<i>1155.6</i>
17.5°	1075.5	1091.5	1117.2	1136.4	<i>1142.7</i>
20°	1048.2	1064.3	1096.4	1118.6	<i>1126.6</i>
22.5°	1016.3	1037.1	1073.9	1099.6	<i>1106.0</i>
25°	982.8	1006.7	1046.7	1075.5	<i>1085.1</i>
27.5°	945.8	974.8	1017.9	1053.2	<i>1061.2</i>
30°	907.4	937.8	987.5	1025.9	<i>1035.5</i>
32.5°	867.3	902.7	955.4	998.7	<i>1011.6</i>
35°	827.3	862.6	920.2	968.4	<i>982.8</i>
37.5°	780.9	822.6	886.7	936.4	<i>953.8</i>
40°	741.1	780.9	849.9	904.3	<i>921.9</i>
42.5°	696.1	739.4	811.5	870.6	<i>891.4</i>
45°	651.4	697.8	774.6	837.1	<i>857.9</i>
47.5°	609.7	656.1	736.2	801.9	<i>822.6</i>
50°	566.6	614.6	697.8	765.0	<i>785.8</i>
52.5°	520.2	572.9	659.3	726.6	<i>750.7</i>
55°	478.5	531.2	617.7	688.1	<i>712.2</i>
57.5°	435.2	489.7	579.4	646.7	<i>669.1</i>
60°	395.4	448.1	536.3	601.7	<i>627.5</i>
62.5°	352.0	406.4	492.8	557.0	<i>581.1</i>
65°	312.0	364.9	449.7	512.2	<i>534.5</i>
67.5°	272.0	325.0	404.8	464.2	<i>489.7</i>
70°	231.9	285.0	358.4	416.2	<i>438.5</i>
72.5°	197.0	243.3	313.6	366.5	<i>387.4</i>
75°	158.5	204.9	264.0	310.4	<i>320.0</i>
77.5°	123.2	164.9	214.5	235.2	<i>238.6</i>
80°	91.1	123.2	156.9	161.6	<i>161.6</i>
82.5°	60.7	84.8	97.7	99.1	<i>97.7</i>
85°	36.8	44.8	46.4	40.0	<i>36.8</i>
87.5°	12.7	12.7	8.0	4.7	<i>1.6</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)