

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: P842852

Luminaire Tested: **14CZ2-35-S-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-S-UNV-B40
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

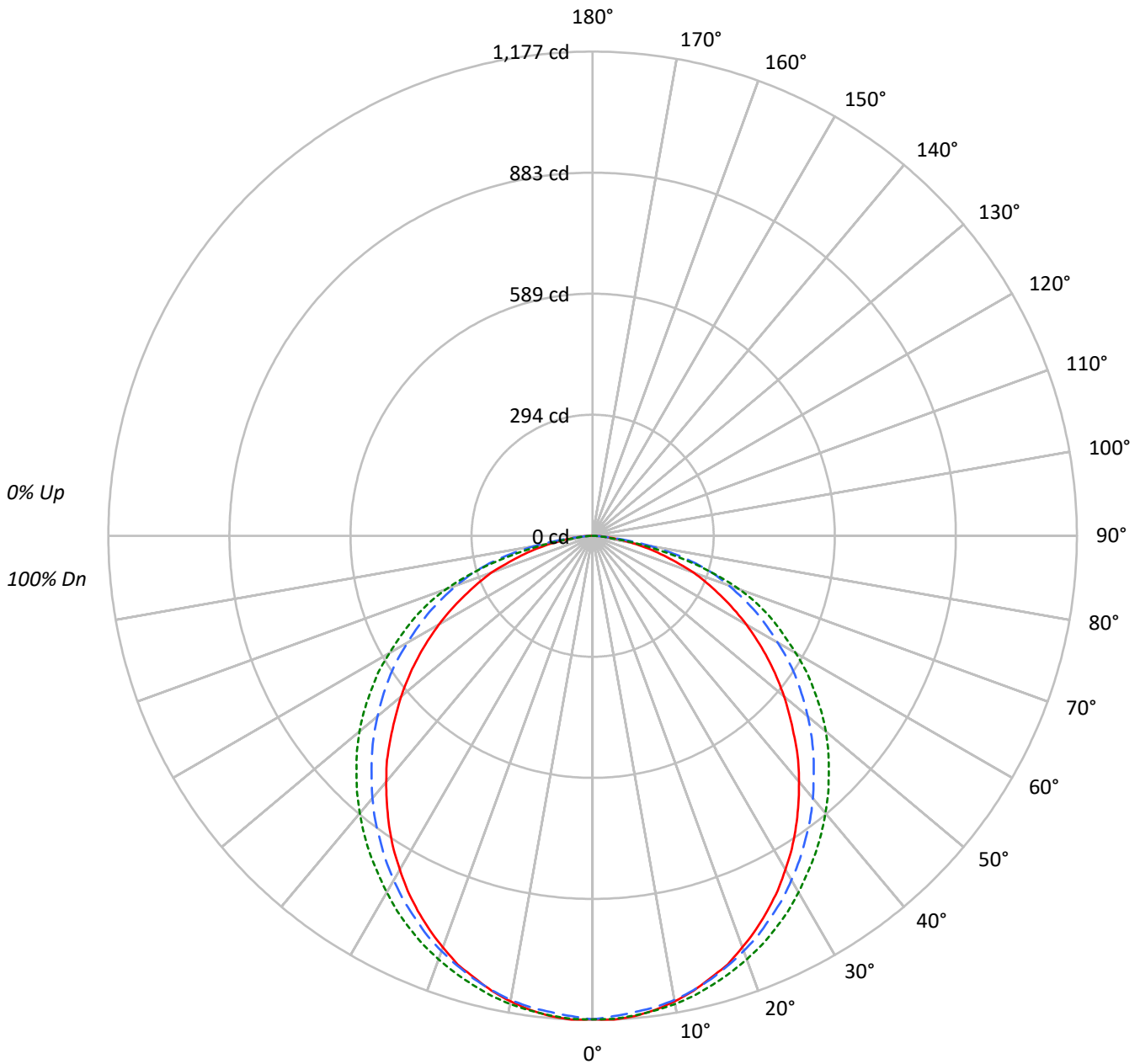
Lumens per Lamp: N/A
Luminaire Lumens: 3293.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): 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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	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	35	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	28	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°	3318	3318	3318
5°	3322	3294	3317
10°	3294	3285	3313
15°	3249	3259	3301
20°	3198	3227	3291
25°	3132	3188	3280
30°	3054	3150	3262
35°	2971	3106	3252
40°	2876	3068	3243
45°	2770	3031	3239
50°	2667	2997	3248
55°	2555	2973	3238
60°	2434	2931	3217
65°	2290	2922	3217
70°	2156	2898	3125
75°	1870	2832	2671
80°	1512	2282	1778
85°	1004	790	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	3.4
10°-20°	315.9	9.6
20°-30°	473.8	14.4
30°-40°	565.2	17.2
40°-50°	584.3	17.7
50°-60°	533.5	16.2
60°-70°	419.8	12.7
70°-80°	244.4	7.4
80°-90°	45.0	1.4
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°	900.7	27.4
0°-40°	1465.9	44.5
0°-60°	2583.8	78.5
0°-90°	3293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1172	1169	1163	1172	1171	111
15°	1112	1114	1115	1130	1130	314
25°	1006	1011	1024	1048	1053	463
35°	862	874	901	936	944	539
45°	694	717	759	802	811	536
55°	519	547	604	648	658	464
65°	343	379	438	472	482	341
75°	172	212	260	255	245	182
85°	31	44	24	20	16	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.6	1175.6	1175.6	1175.6	1175.6
2.5°	1177.2	1174.0	1169.0	1177.2	1175.6
5°	1172.4	1169.0	1162.6	1172.4	1170.6
7.5°	1162.6	1159.2	1156.0	1165.8	1164.2
10°	1149.3	1147.7	1146.1	1157.6	1156.0
12.5°	1133.1	1133.1	1131.5	1144.5	1144.5
15°	1111.9	1113.5	1115.1	1129.7	1129.7
17.5°	1092.3	1090.7	1095.5	1111.9	1113.5
20°	1064.5	1067.7	1074.3	1093.9	1095.5
22.5°	1036.7	1040.1	1051.5	1071.1	1075.9
25°	1005.7	1010.7	1023.7	1048.1	1053.1
27.5°	973.1	979.7	997.5	1023.7	1028.5
30°	937.1	946.9	966.5	995.9	1000.9
32.5°	901.3	911.1	935.5	964.9	971.5
35°	862.1	873.5	901.3	935.5	943.7
37.5°	821.2	835.9	868.7	902.9	912.7
40°	780.4	796.8	832.7	868.7	880.1
42.5°	739.6	756.0	795.0	835.9	847.5
45°	693.8	716.8	759.2	801.6	811.4
47.5°	649.8	674.4	721.6	764.0	777.2
50°	607.4	631.8	682.4	726.6	739.6
52.5°	563.4	589.4	643.2	689.0	700.4
55°	519.2	547.0	604.2	648.2	658.0
57.5°	475.1	504.6	563.4	605.8	617.2
60°	431.1	462.1	519.2	561.6	569.8
62.5°	386.9	419.5	478.3	516.0	524.2
65°	342.9	378.7	437.5	471.9	481.7
67.5°	300.5	336.3	393.5	426.1	434.3
70°	261.3	293.9	351.1	375.5	378.7
72.5°	212.3	253.1	308.5	321.7	313.5
75°	171.5	212.3	259.7	254.7	244.9
77.5°	130.6	171.5	202.5	186.1	173.1
80°	93.0	133.8	140.4	115.8	109.4
82.5°	60.4	93.0	78.4	60.4	49.0
85°	31.0	44.0	24.4	19.6	16.4
87.5°	9.8	6.6	3.2	3.2	1.6
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)