

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: P842853

Luminaire Tested: **14CZ2-35-S-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842853
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-B50
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

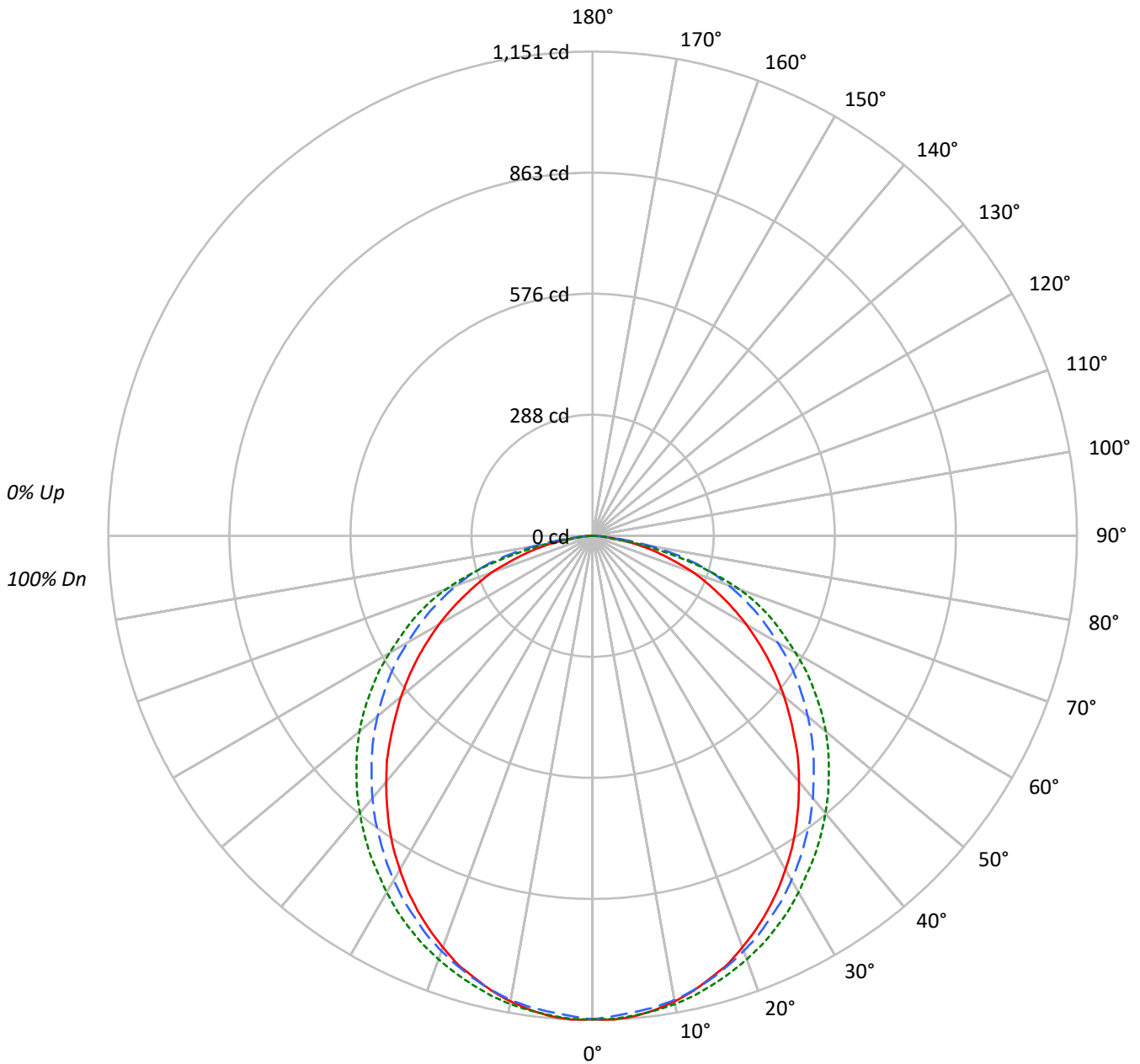
Lumens per Lamp: N/A
Luminaire Lumens: 3220.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	3245	3245	3245
5°	3248	3221	3243
10°	3221	3212	3240
15°	3177	3186	3228
20°	3127	3156	3218
25°	3063	3118	3207
30°	2987	3080	3190
35°	2905	3037	3180
40°	2812	3000	3171
45°	2708	2964	3168
50°	2608	2930	3176
55°	2498	2907	3166
60°	2380	2866	3145
65°	2239	2857	3146
70°	2109	2833	3056
75°	1829	2769	2611
80°	1479	2232	1739
85°	981	774	518



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	3.4
10°-20°	308.9	9.6
20°-30°	463.3	14.4
30°-40°	552.7	17.2
40°-50°	571.4	17.7
50°-60°	521.7	16.2
60°-70°	410.5	12.7
70°-80°	239.0	7.4
80°-90°	44.0	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°	880.7	27.4
0°-40°	1433.4	44.5
0°-60°	2526.5	78.5
0°-90°	3220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3220.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1146	1143	1137	1146	1145	109
15°	1087	1089	1090	1105	1105	307
25°	983	988	1001	1025	1030	453
35°	843	854	881	915	923	527
45°	678	701	742	784	794	524
55°	508	535	591	634	643	454
65°	335	370	428	462	471	333
75°	168	208	254	249	239	178
85°	30	43	24	19	16	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1151.1	1147.9	1143.0	1151.1	1149.5
5°	1146.4	1143.0	1136.8	1146.4	1144.6
7.5°	1136.8	1133.5	1130.3	1139.9	1138.3
10°	1123.9	1122.3	1120.7	1131.9	1130.3
12.5°	1108.0	1108.0	1106.5	1119.2	1119.2
15°	1087.3	1088.9	1090.4	1104.7	1104.7
17.5°	1068.1	1066.6	1071.2	1087.3	1088.9
20°	1040.9	1044.1	1050.5	1069.7	1071.2
22.5°	1013.7	1017.1	1028.2	1047.4	1052.1
25°	983.4	988.3	1001.0	1024.9	1029.8
27.5°	951.5	958.0	975.4	1001.0	1005.7
30°	916.3	925.9	945.1	973.8	978.7
32.5°	881.3	890.9	914.7	943.5	950.0
35°	843.0	854.1	881.3	914.7	922.8
37.5°	803.0	817.3	849.4	882.9	892.4
40°	763.1	779.2	814.2	849.4	860.6
42.5°	723.2	739.3	777.4	817.3	828.7
45°	678.4	700.9	742.4	783.9	793.5
47.5°	635.4	659.5	705.6	747.1	760.0
50°	593.9	617.8	667.3	710.5	723.2
52.5°	550.9	576.3	628.9	673.7	684.9
55°	507.6	534.8	590.8	633.8	643.4
57.5°	464.6	493.4	550.9	592.4	603.5
60°	421.6	451.9	507.6	549.1	557.1
62.5°	378.3	410.2	467.7	504.5	512.5
65°	335.3	370.3	427.8	461.5	471.1
67.5°	293.8	328.8	384.8	416.7	424.7
70°	255.5	287.4	343.3	367.2	370.3
72.5°	207.6	247.5	301.7	314.6	306.5
75°	167.7	207.6	253.9	249.0	239.4
77.5°	127.7	167.7	198.0	181.9	169.2
80°	91.0	130.9	137.3	113.3	107.0
82.5°	59.1	91.0	76.7	59.1	47.9
85°	30.3	43.0	23.9	19.2	16.0
87.5°	9.6	6.5	3.1	3.1	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)