

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: P842859

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-UNV-B50
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

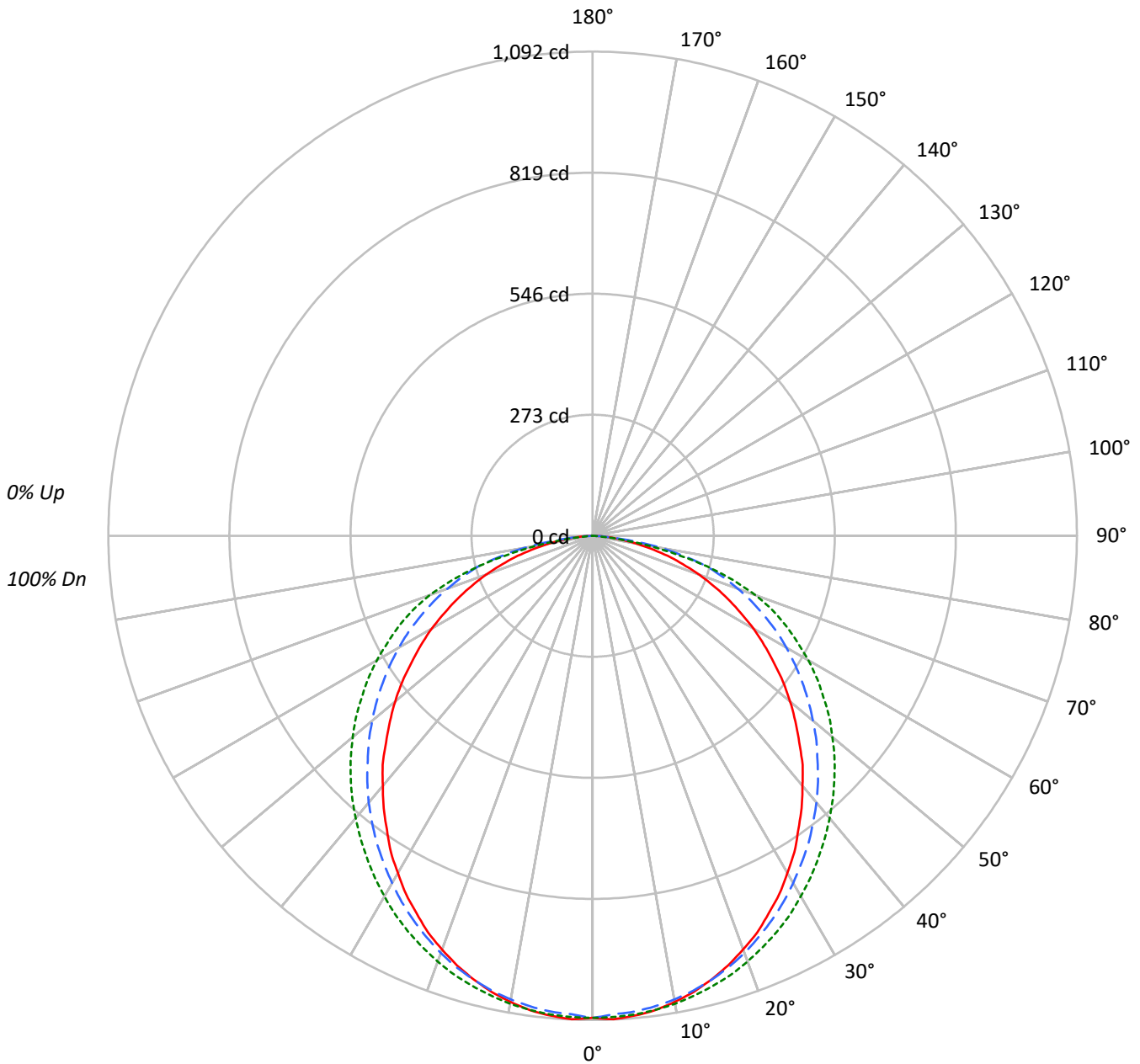
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3156.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
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					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	90	88	90	87	85	83								
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69								
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58								
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49								
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42								
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37								
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32								
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29								
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26								
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3069	3069	3069
5°	3079	3053	3071
10°	3060	3044	3072
15°	3027	3029	3070
20°	2983	3008	3069
25°	2926	2978	3067
30°	2862	2948	3060
35°	2787	2922	3058
40°	2712	2894	3062
45°	2629	2862	3079
50°	2552	2849	3099
55°	2455	2841	3127
60°	2368	2845	3171
65°	2246	2853	3219
70°	2109	2875	3217
75°	1910	2901	2910
80°	1569	2503	2069
85°	1159	1185	476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	3.3
10°-20°	293.9	9.3
20°-30°	442.7	14.0
30°-40°	531.3	16.8
40°-50°	553.7	17.5
50°-60°	512.6	16.2
60°-70°	414.2	13.1
70°-80°	252.5	8.0
80°-90°	52.1	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°	839.5	26.6
0°-40°	1370.8	43.4
0°-60°	2437.2	77.2
0°-90°	3156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1086	1084	1077	1085	1084	103
15°	1036	1036	1036	1051	1051	292
25°	939	945	956	980	985	433
35°	809	821	848	879	887	507
45°	659	678	717	757	771	509
55°	499	525	577	622	636	447
65°	336	370	427	470	482	333
75°	175	214	266	270	267	184
85°	36	54	37	20	15	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1087.3	1087.3	1087.3	1087.3	1087.3
2.5°	1091.5	1088.0	1080.3	1088.0	1086.5
5°	1086.5	1083.8	1077.4	1085.1	1083.8
7.5°	1079.5	1076.6	1071.0	1080.3	1078.7
10°	1067.5	1066.2	1061.9	1072.5	1071.8
12.5°	1053.6	1052.8	1050.7	1062.7	1061.9
15°	1035.9	1036.5	1036.5	1050.7	1050.7
17.5°	1016.2	1017.5	1020.4	1035.9	1038.1
20°	992.9	995.8	1001.4	1019.1	1021.8
22.5°	969.1	971.2	979.5	1000.7	1003.6
25°	939.4	945.1	956.3	980.3	984.6
27.5°	911.4	916.2	931.7	956.3	963.5
30°	878.2	886.0	904.4	931.1	938.9
32.5°	846.6	855.0	876.1	907.1	914.1
35°	808.7	821.3	848.0	879.0	887.3
37.5°	774.2	786.0	816.4	850.1	860.0
40°	736.0	750.9	785.4	821.3	831.1
42.5°	701.0	714.9	752.3	788.9	802.3
45°	658.7	678.5	717.0	757.1	771.3
47.5°	620.0	639.7	684.1	726.9	739.7
50°	581.2	602.3	648.8	693.2	705.8
52.5°	541.1	563.8	613.6	657.9	672.9
55°	498.9	525.0	577.2	622.1	635.5
57.5°	458.8	485.5	541.1	586.8	600.2
60°	419.4	447.0	503.9	547.5	561.7
62.5°	375.9	408.2	467.3	510.1	520.8
65°	336.3	369.5	427.2	470.0	482.0
67.5°	294.9	330.7	388.4	427.8	439.2
70°	255.5	292.7	348.3	385.0	389.8
72.5°	213.3	251.3	307.5	330.7	330.7
75°	175.1	213.9	266.0	270.3	266.8
77.5°	133.7	176.7	210.4	201.9	193.5
80°	96.5	138.7	154.0	138.7	127.3
82.5°	64.7	100.6	92.8	73.8	65.5
85°	35.8	53.5	36.6	20.3	14.7
87.5°	13.4	12.0	3.5	3.5	3.5
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)