

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: P842856

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-SQR-UNV-B50
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

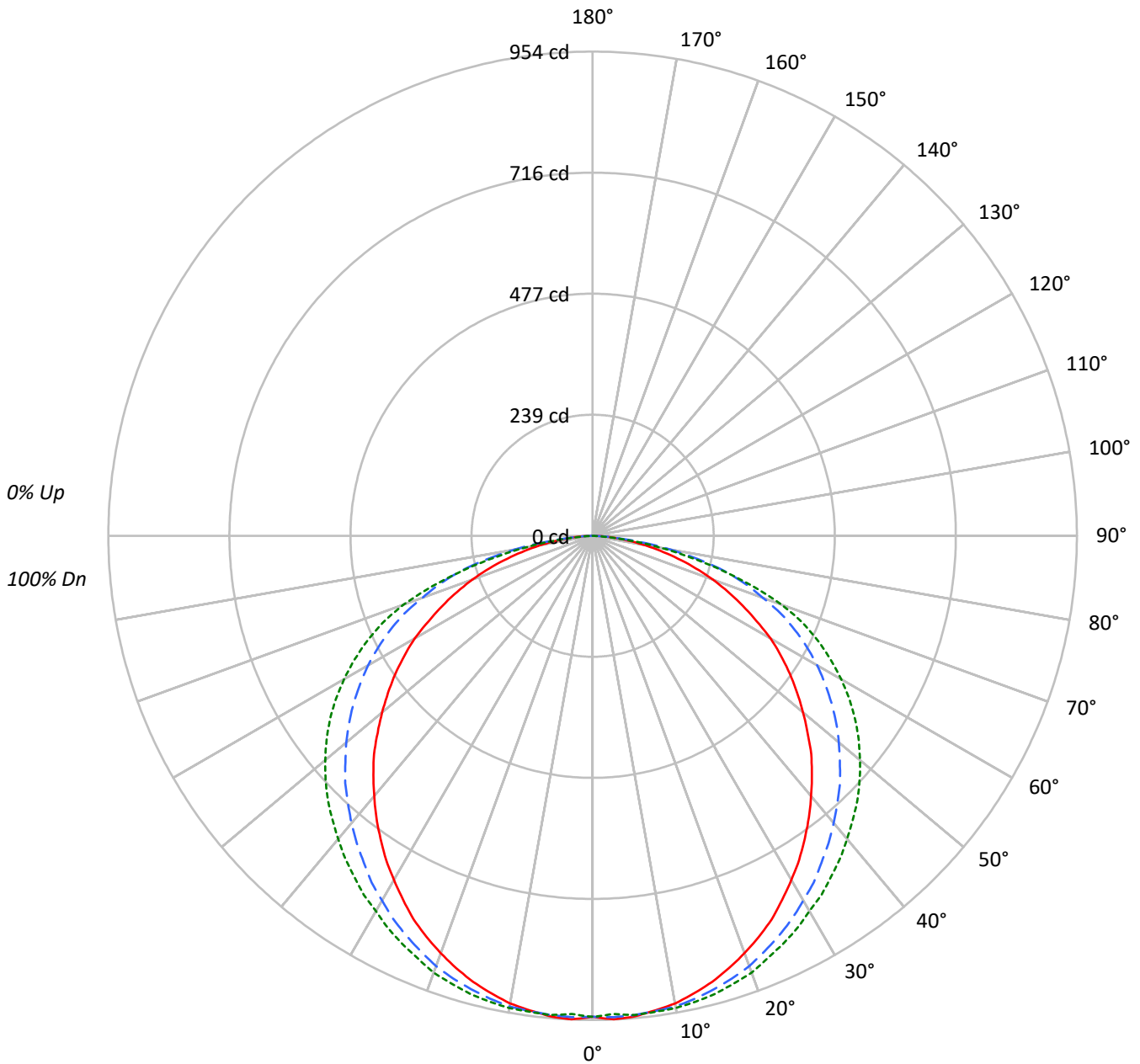
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2999.0 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48																			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41																			
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35																			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2675	2675	2675
5°	2694	2686	2686
10°	2682	2699	2708
15°	2659	2703	2730
20°	2629	2711	2752
25°	2598	2707	2763
30°	2552	2705	2783
35°	2510	2708	2823
40°	2467	2723	2874
45°	2432	2751	2944
50°	2376	2781	3020
55°	2335	2827	3109
60°	2286	2885	3191
65°	2181	2937	3271
70°	2071	2943	3268
75°	1895	2935	2885
80°	1621	2505	2237
85°	1276	1419	836



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	3.0
10°-20°	260.2	8.7
20°-30°	397.9	13.3
30°-40°	487.7	16.3
40°-50°	524.5	17.5
50°-60°	504.0	16.8
60°-70°	419.7	14.0
70°-80°	257.6	8.6
80°-90°	57.4	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°	748.1	24.9
0°-40°	1235.8	41.2
0°-60°	2264.3	75.5
0°-90°	2999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	951	942	948	948	948	90
15°	910	907	925	931	934	257
25°	834	842	869	880	887	384
35°	728	747	786	807	819	456
45°	609	636	689	721	738	469
55°	474	515	574	614	632	424
65°	326	376	440	476	490	323
75°	174	227	269	268	264	184
85°	39	59	44	30	26	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.8	947.8	947.8	947.8	947.8
2.5°	953.7	944.7	949.3	947.8	943.2
5°	950.7	941.7	947.8	947.8	947.8
7.5°	943.2	935.7	944.7	946.1	946.1
10°	935.7	929.6	941.7	943.2	944.7
12.5°	923.5	918.9	934.2	937.1	940.1
15°	909.9	907.0	925.0	931.1	934.2
17.5°	893.3	894.8	914.5	922.0	925.0
20°	875.1	879.7	902.4	909.9	916.0
22.5°	855.5	861.5	885.8	894.8	900.9
25°	834.3	841.8	869.1	879.7	887.3
27.5°	808.6	820.7	851.0	864.7	872.2
30°	783.0	796.6	829.9	846.4	854.0
32.5°	757.2	772.3	810.2	826.8	838.9
35°	728.5	746.8	785.9	807.1	819.2
37.5°	699.9	721.0	763.3	787.4	801.0
40°	669.5	692.3	739.0	766.3	779.9
42.5°	639.3	665.1	713.5	743.6	758.7
45°	609.2	636.4	689.2	721.0	737.6
47.5°	574.4	607.7	660.5	696.7	713.5
50°	541.1	577.4	633.3	671.2	687.7
52.5°	507.8	545.7	604.6	643.9	660.5
55°	474.5	515.4	574.4	613.6	631.8
57.5°	439.8	482.1	542.6	583.4	600.0
60°	405.0	449.0	511.0	548.7	565.2
62.5°	364.2	415.7	476.2	513.9	529.0
65°	326.5	376.3	439.8	476.2	489.8
67.5°	288.8	340.1	402.1	435.4	447.3
70°	250.9	302.4	356.6	388.5	396.0
72.5°	213.2	264.5	316.0	334.0	331.1
75°	173.8	226.8	269.1	267.6	264.5
77.5°	136.1	187.4	213.2	202.5	198.1
80°	99.7	149.7	154.1	143.6	137.6
82.5°	68.1	107.2	96.7	84.6	78.5
85°	39.4	58.9	43.8	30.2	25.8
87.5°	16.6	15.1	4.6	4.6	2.9
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)