

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: P842855

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842855
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-B40
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

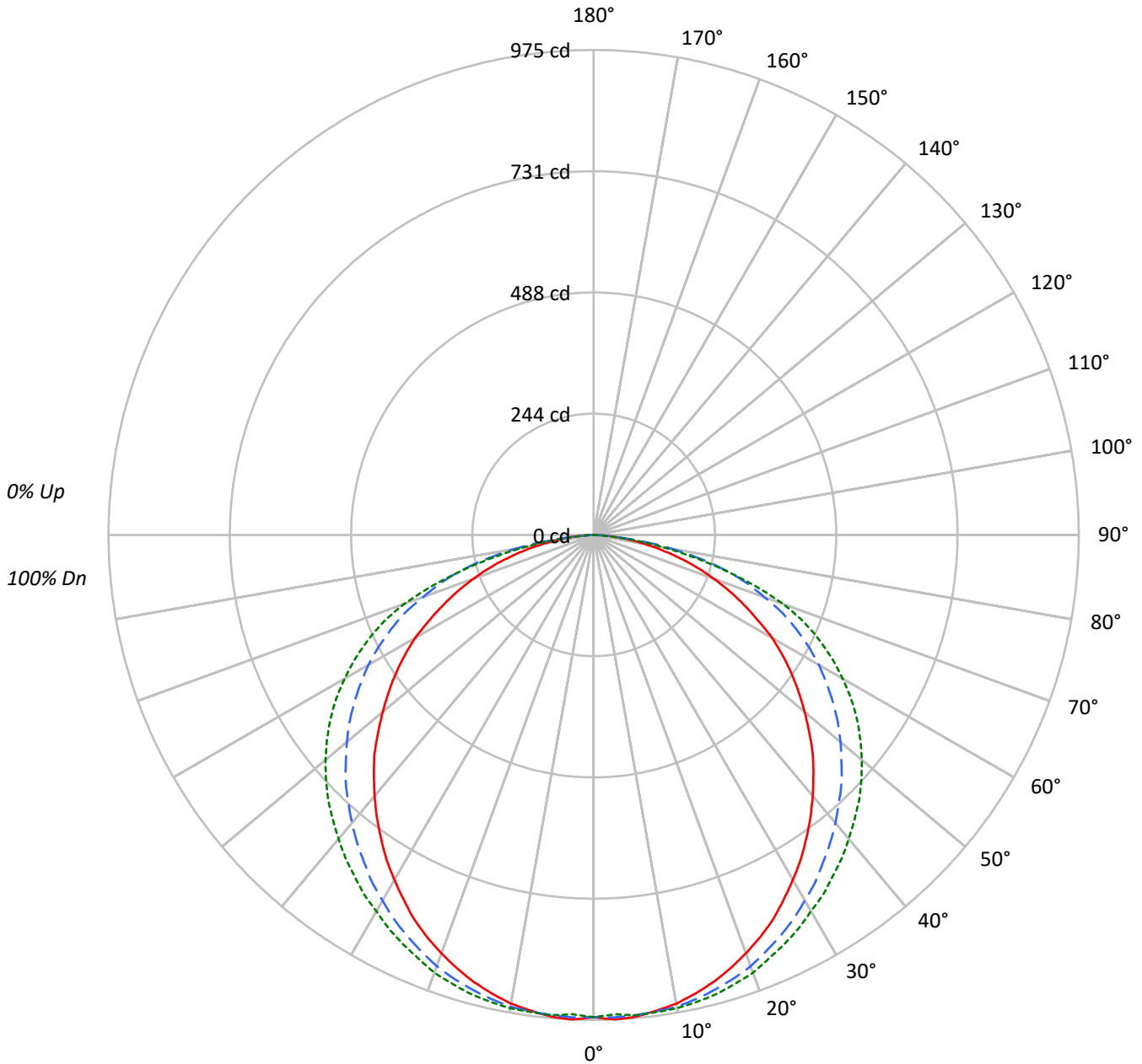
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3067.0 lumens
Efficiency: N/A
Efficacy: 109.5 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 (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									
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°	2736	2736	2736
5°	2755	2746	2746
10°	2743	2760	2769
15°	2719	2764	2792
20°	2688	2772	2814
25°	2657	2768	2826
30°	2610	2766	2847
35°	2568	2770	2887
40°	2523	2785	2939
45°	2487	2813	3011
50°	2430	2844	3088
55°	2388	2891	3180
60°	2338	2950	3263
65°	2230	3004	3346
70°	2118	3010	3342
75°	1939	3001	2950
80°	1658	2562	2287
85°	1305	1451	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.0
10°-20°	266.1	8.7
20°-30°	406.9	13.3
30°-40°	498.7	16.3
40°-50°	536.4	17.5
50°-60°	515.4	16.8
60°-70°	429.2	14.0
70°-80°	263.5	8.6
80°-90°	58.7	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°	765.1	24.9
0°-40°	1263.8	41.2
0°-60°	2315.7	75.5
0°-90°	3067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	969	969	969	969	969	
5°	972	963	969	969	969	92
15°	930	928	946	952	955	262
25°	853	861	889	900	907	392
35°	745	764	804	825	838	466
45°	623	651	705	737	754	479
55°	485	527	587	628	646	434
65°	334	385	450	487	501	331
75°	178	232	275	274	270	188
85°	40	60	45	31	26	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	969.3	969.3	969.3	969.3	969.3
2.5°	975.3	966.1	970.8	969.3	964.6
5°	972.3	963.1	969.3	969.3	969.3
7.5°	964.6	956.9	966.1	967.6	967.6
10°	956.9	950.7	963.1	964.6	966.1
12.5°	944.5	939.8	955.4	958.4	961.4
15°	930.5	927.5	946.0	952.2	955.4
17.5°	913.6	915.1	935.2	942.9	946.0
20°	895.0	899.7	922.8	930.5	936.7
22.5°	874.9	881.1	905.9	915.1	921.3
25°	853.2	860.9	888.8	899.7	907.4
27.5°	826.9	839.3	870.3	884.3	892.0
30°	800.7	814.7	848.7	865.6	873.4
32.5°	774.4	789.8	828.6	845.5	857.9
35°	745.1	763.7	803.8	825.4	837.8
37.5°	715.7	737.4	780.6	805.3	819.2
40°	684.7	708.0	755.8	783.6	797.5
42.5°	653.8	680.2	729.6	760.5	775.9
45°	623.0	650.8	704.8	737.4	754.3
47.5°	587.4	621.5	675.5	712.5	729.6
50°	553.4	590.4	647.6	686.4	703.3
52.5°	519.3	558.1	618.3	658.5	675.5
55°	485.3	527.1	587.4	627.5	646.1
57.5°	449.7	493.0	554.9	596.7	613.6
60°	414.2	459.2	522.5	561.1	578.0
62.5°	372.4	425.1	487.0	525.6	541.0
65°	333.9	384.9	449.7	487.0	500.9
67.5°	295.3	347.8	411.2	445.2	457.5
70°	256.6	309.2	364.7	397.3	405.0
72.5°	218.0	270.5	323.2	341.6	338.6
75°	177.8	231.9	275.2	273.7	270.5
77.5°	139.2	191.7	218.0	207.1	202.6
80°	102.0	153.1	157.6	146.9	140.7
82.5°	69.6	109.7	98.9	86.5	80.3
85°	40.3	60.2	44.8	30.8	26.3
87.5°	16.9	15.4	4.7	4.7	3.0
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)