

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: P842862

Luminaire Tested: **14CZ2-39-HRP-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-HRP-UNV-B50
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

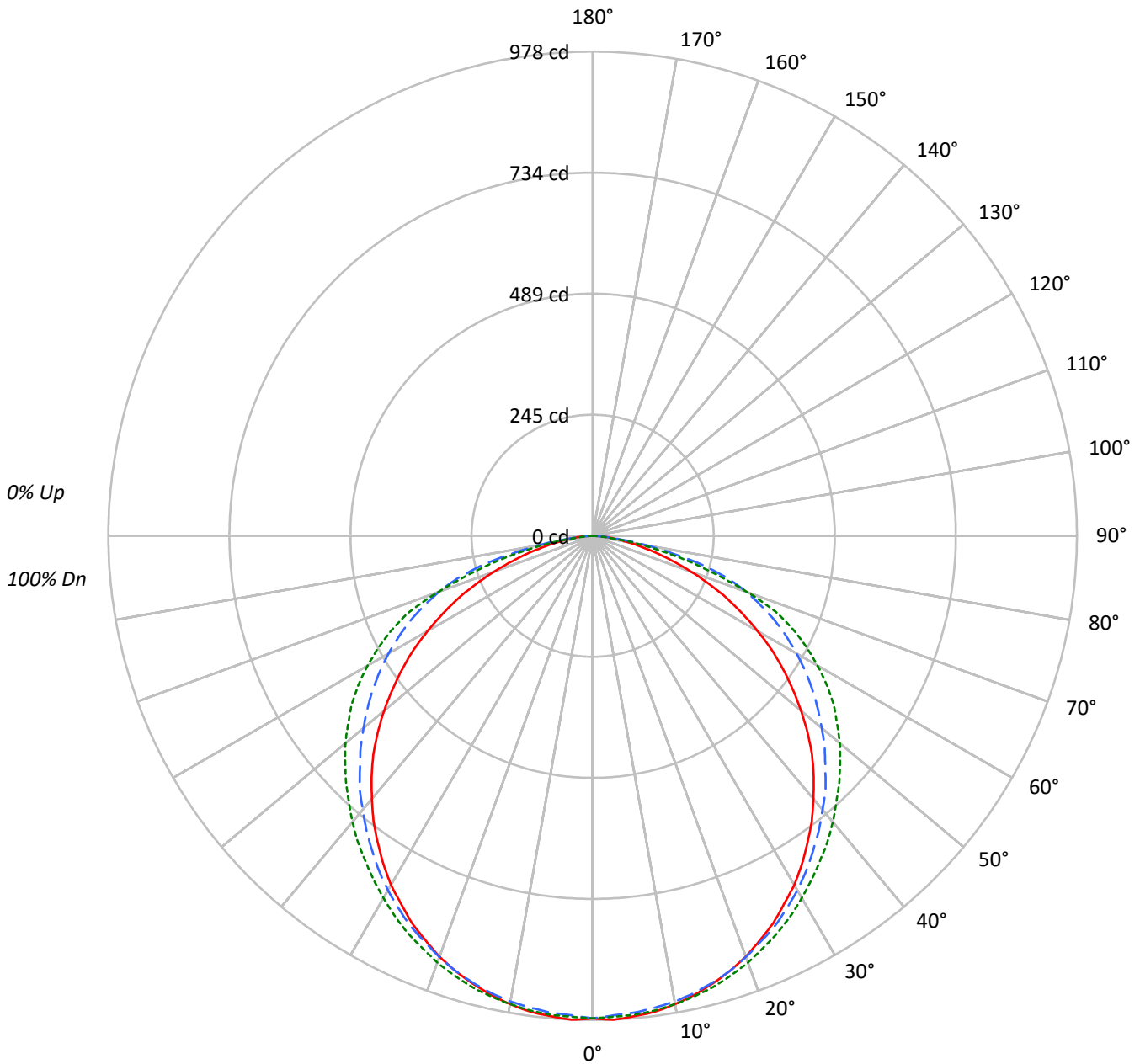
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2871.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 31
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	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2752	2752	2752
5°	2760	2740	2753
10°	2753	2738	2753
15°	2736	2731	2757
20°	2717	2720	2755
25°	2688	2711	2755
30°	2654	2695	2754
35°	2607	2675	2759
40°	2555	2661	2781
45°	2501	2652	2811
50°	2414	2652	2862
55°	2310	2666	2923
60°	2171	2685	2962
65°	2002	2713	2979
70°	1744	2719	2742
75°	1437	2531	2215
80°	1130	1821	1482
85°	881	703	347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	3.2
10°-20°	264.9	9.2
20°-30°	402.2	14.0
30°-40°	487.4	17.0
40°-50°	513.6	17.9
50°-60°	479.4	16.7
60°-70°	383.1	13.3
70°-80°	210.9	7.3
80°-90°	37.3	1.3
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°	759.4	26.4
0°-40°	1246.8	43.4
0°-60°	2239.8	78.0
0°-90°	2871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	974	972	967	973	972	93
15°	936	936	934	943	943	264
25°	863	865	870	883	885	397
35°	756	764	776	796	801	473
45°	626	638	664	694	704	482
55°	470	493	542	580	594	419
65°	300	338	406	440	446	295
75°	132	189	232	209	203	142
85°	27	34	22	14	11	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	974.9	974.9	974.9	974.9	974.9
2.5°	978.5	975.8	969.6	974.9	972.4
5°	974.2	971.5	966.9	973.3	971.5
7.5°	969.6	966.0	961.4	968.7	966.9
10°	960.5	957.8	955.2	961.4	960.5
12.5°	949.8	948.8	946.1	953.4	952.5
15°	936.3	936.3	934.5	943.4	943.4
17.5°	921.7	920.7	921.7	931.7	930.8
20°	904.5	904.5	905.4	917.3	917.3
22.5°	883.7	884.6	887.4	901.8	900.9
25°	863.2	864.8	870.3	882.8	884.6
27.5°	837.8	842.4	848.5	863.9	865.7
30°	814.3	817.0	826.8	841.5	844.9
32.5°	786.4	791.7	802.6	818.8	823.4
35°	756.5	763.8	776.3	796.2	800.8
37.5°	726.8	733.2	750.3	770.9	779.1
40°	693.4	704.2	722.2	745.7	754.6
42.5°	660.7	671.7	696.2	720.4	728.6
45°	626.5	638.4	664.4	694.3	704.2
47.5°	588.5	602.3	635.6	667.1	677.9
50°	549.7	566.8	603.9	639.3	651.8
52.5°	509.3	530.7	573.2	610.2	622.1
55°	469.5	492.8	541.7	579.6	594.0
57.5°	428.8	454.2	509.3	552.4	560.7
60°	384.5	415.4	475.7	513.6	524.6
62.5°	341.3	376.5	441.4	477.5	486.6
65°	299.8	337.7	406.2	439.6	446.0
67.5°	254.5	299.8	367.4	398.2	399.8
70°	211.3	263.7	329.5	343.9	332.2
72.5°	168.8	224.8	285.4	273.5	263.7
75°	131.8	188.7	232.1	208.6	203.1
77.5°	97.6	154.4	166.1	153.5	143.5
80°	69.5	121.8	112.0	95.7	91.2
82.5°	47.8	76.8	61.5	47.8	41.6
85°	27.2	34.3	21.7	13.5	10.7
87.5°	11.7	8.2	4.6	3.7	3.7
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)