

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: P881094

Luminaire Tested: **22CZ2-34VHE-HRP-UNV-B50**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P881094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475114)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34VHE-HRP-UNV-B50
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

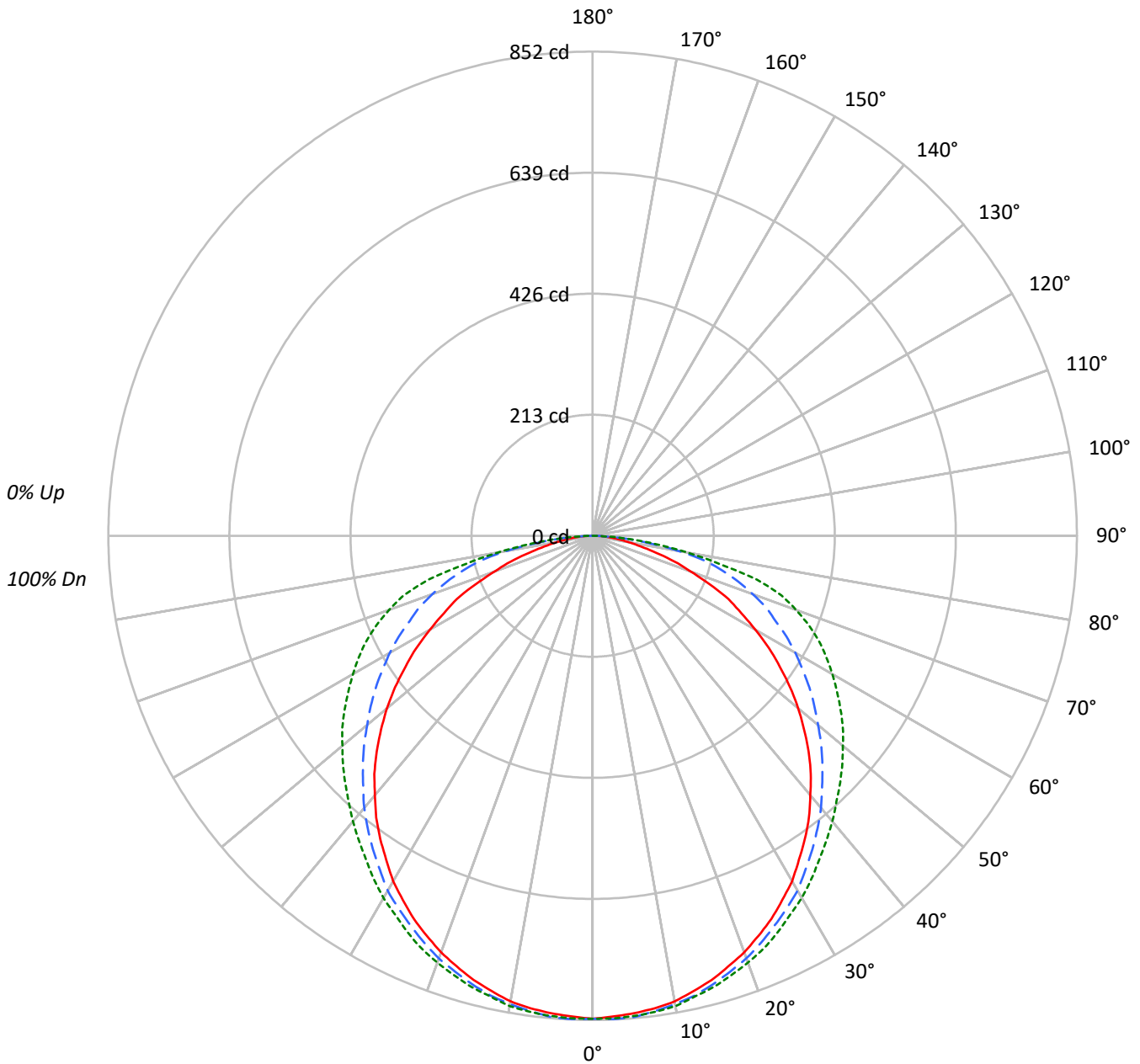
Lumens per Lamp: N/A
Luminaire Lumens: 2581.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27
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	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	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	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2412	2412	2412
5°	2402	2421	2416
10°	2397	2411	2421
15°	2377	2401	2415
20°	2355	2389	2414
25°	2330	2371	2411
30°	2299	2363	2412
35°	2256	2335	2408
40°	2207	2316	2430
45°	2156	2294	2470
50°	2084	2285	2537
55°	1989	2304	2634
60°	1876	2337	2763
65°	1771	2383	2952
70°	1512	2486	3160
75°	1267	2590	3285
80°	1039	2502	2740
85°	902	1852	2012



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	3.1
10°-20°	230.4	8.9
20°-30°	349.2	13.5
30°-40°	421.6	16.3
40°-50°	443.1	17.2
50°-60°	416.9	16.2
60°-70°	347.6	13.5
70°-80°	230.3	8.9
80°-90°	61.4	2.4
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°	660.2	25.6
0°-40°	1081.8	41.9
0°-60°	1941.8	75.2
0°-90°	2581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	850	850	850	850	850	
5°	843	845	850	850	848	80
15°	809	812	817	821	822	228
25°	744	749	757	767	770	343
35°	651	658	674	689	695	407
45°	537	545	572	601	616	414
55°	402	420	466	513	532	360
65°	264	286	355	414	440	257
75°	116	161	236	285	300	126
85°	28	42	57	62	62	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	849.9	849.9	849.9	849.9	849.9
2.5°	846.6	848.2	851.5	851.5	849.9
5°	843.4	845.0	849.9	849.9	848.2
7.5°	838.5	840.3	843.4	846.6	845.0
10°	832.0	833.6	836.9	840.3	840.3
12.5°	820.6	822.2	828.7	830.5	830.5
15°	809.2	812.5	817.3	820.6	822.2
17.5°	794.6	797.8	804.3	810.8	810.8
20°	779.9	783.2	791.3	797.8	799.3
22.5°	762.0	766.9	775.0	783.2	786.4
25°	744.1	749.0	757.2	766.9	770.2
27.5°	722.8	727.7	739.3	750.7	752.1
30°	701.7	706.6	721.2	731.0	736.0
32.5°	675.7	682.2	696.8	711.5	716.3
35°	651.3	657.8	674.0	688.8	695.2
37.5°	625.2	631.6	649.6	667.7	675.7
40°	595.8	604.1	625.2	644.8	656.1
42.5°	568.3	576.4	597.6	623.6	635.0
45°	537.2	545.4	571.6	600.7	615.5
47.5°	504.7	514.5	545.4	581.3	595.8
50°	472.2	483.6	517.7	558.4	574.7
52.5°	437.9	452.7	491.7	535.8	555.1
55°	402.1	420.1	465.7	512.8	532.4
57.5°	367.9	384.4	437.9	488.5	509.6
60°	330.5	351.7	411.8	463.9	486.8
62.5°	294.7	317.5	384.4	439.7	463.9
65°	263.8	286.4	354.9	413.5	439.7
67.5°	223.0	254.1	330.5	385.8	411.8
70°	182.3	224.6	299.6	356.5	380.9
72.5°	151.4	192.1	268.7	325.6	348.4
75°	115.6	161.2	236.2	285.0	299.6
77.5°	86.4	133.5	201.9	226.4	227.9
80°	63.6	102.5	153.1	161.2	167.7
82.5°	44.1	71.6	99.4	109.0	112.4
85°	27.7	42.3	56.9	61.8	61.8
87.5°	14.6	16.3	19.5	19.5	19.5
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)