

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: P881107

Luminaire Tested: **22CZ2-39VHE-HRP-UNV-B35**

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: P881107
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: 22CZ2-39VHE-HRP-UNV-B35
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

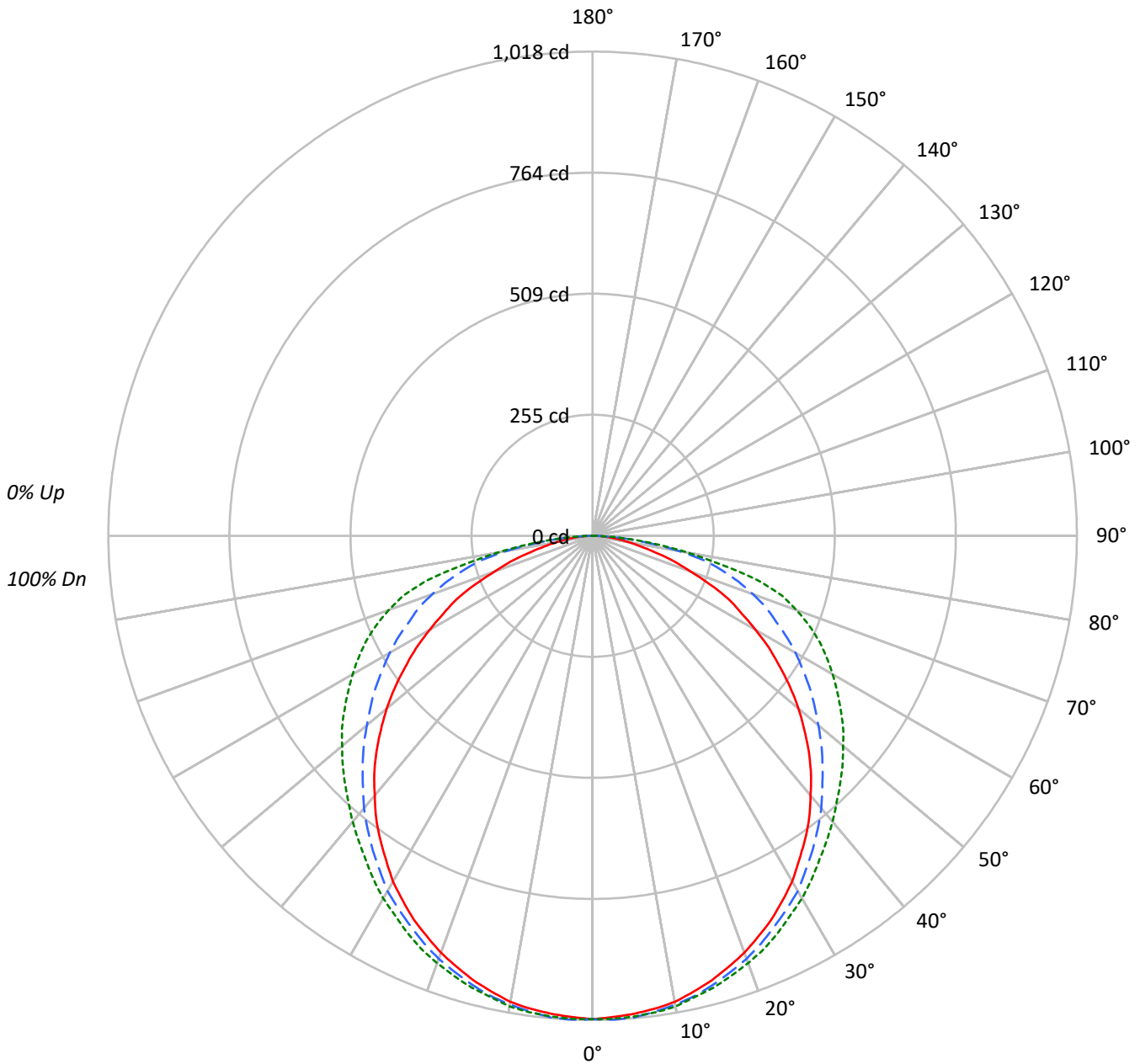
Lumens per Lamp: N/A
Luminaire Lumens: 3087.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 32
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°	2884	2884	2884
5°	2873	2895	2890
10°	2867	2884	2896
15°	2843	2872	2889
20°	2817	2858	2887
25°	2786	2835	2884
30°	2750	2826	2884
35°	2698	2793	2880
40°	2640	2770	2907
45°	2579	2743	2954
50°	2493	2733	3034
55°	2379	2756	3150
60°	2243	2796	3305
65°	2118	2850	3530
70°	1809	2973	3780
75°	1516	3097	3928
80°	1244	2992	3278
85°	1078	2217	2406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	3.1
10°-20°	275.6	8.9
20°-30°	417.7	13.5
30°-40°	504.3	16.3
40°-50°	529.9	17.2
50°-60°	498.6	16.2
60°-70°	415.7	13.5
70°-80°	275.5	8.9
80°-90°	73.4	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°	789.6	25.6
0°-40°	1293.9	41.9
0°-60°	2322.4	75.2
0°-90°	3087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1009	1011	1016	1016	1014	96
15°	968	972	978	982	983	273
25°	890	896	906	917	921	410
35°	779	787	806	824	832	487
45°	643	652	684	718	736	495
55°	481	502	557	613	637	430
65°	316	343	424	494	526	307
75°	138	193	282	341	358	150
85°	33	51	68	74	74	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.5	1016.5	1016.5	1016.5	1016.5
2.5°	1012.6	1014.5	1018.4	1018.4	1016.5
5°	1008.7	1010.6	1016.5	1016.5	1014.5
7.5°	1002.9	1005.0	1008.7	1012.6	1010.6
10°	995.1	997.0	1000.9	1005.0	1005.0
12.5°	981.5	983.4	991.2	993.3	993.3
15°	967.8	971.7	977.6	981.5	983.4
17.5°	950.3	954.2	962.0	969.8	969.8
20°	932.8	936.7	946.4	954.2	956.0
22.5°	911.4	917.3	927.0	936.7	940.6
25°	890.0	895.9	905.6	917.3	921.2
27.5°	864.5	870.4	884.2	897.8	899.6
30°	839.3	845.1	862.6	874.3	880.3
32.5°	808.1	815.9	833.4	850.9	856.8
35°	778.9	786.7	806.2	823.9	831.5
37.5°	747.8	755.4	777.0	798.6	808.1
40°	712.6	722.5	747.8	771.2	784.8
42.5°	679.7	689.5	714.7	745.9	759.5
45°	642.6	652.3	683.6	718.4	736.1
47.5°	603.7	615.3	652.3	695.3	712.6
50°	564.8	578.4	619.2	667.9	687.3
52.5°	523.7	541.4	588.1	640.8	664.0
55°	480.9	502.5	557.0	613.4	636.7
57.5°	440.1	459.7	523.7	584.2	609.5
60°	395.3	420.6	492.6	554.8	582.3
62.5°	352.5	379.7	459.7	525.8	554.8
65°	315.5	342.6	424.5	494.5	525.8
67.5°	266.7	303.9	395.3	461.5	492.6
70°	218.1	268.7	358.3	426.4	455.6
72.5°	181.1	229.8	321.4	389.5	416.7
75°	138.3	192.8	282.5	340.8	358.3
77.5°	103.3	159.7	241.4	270.8	272.6
80°	76.1	122.6	183.1	192.8	200.6
82.5°	52.7	85.6	118.9	130.3	134.4
85°	33.1	50.6	68.1	73.9	73.9
87.5°	17.5	19.5	23.3	23.3	23.3
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)