

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: P880727

Luminaire Tested: **22CZ2-39VHE-HRP-B2750-W2D-2700K**

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: P880727
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-B2750-W2D-2700K
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

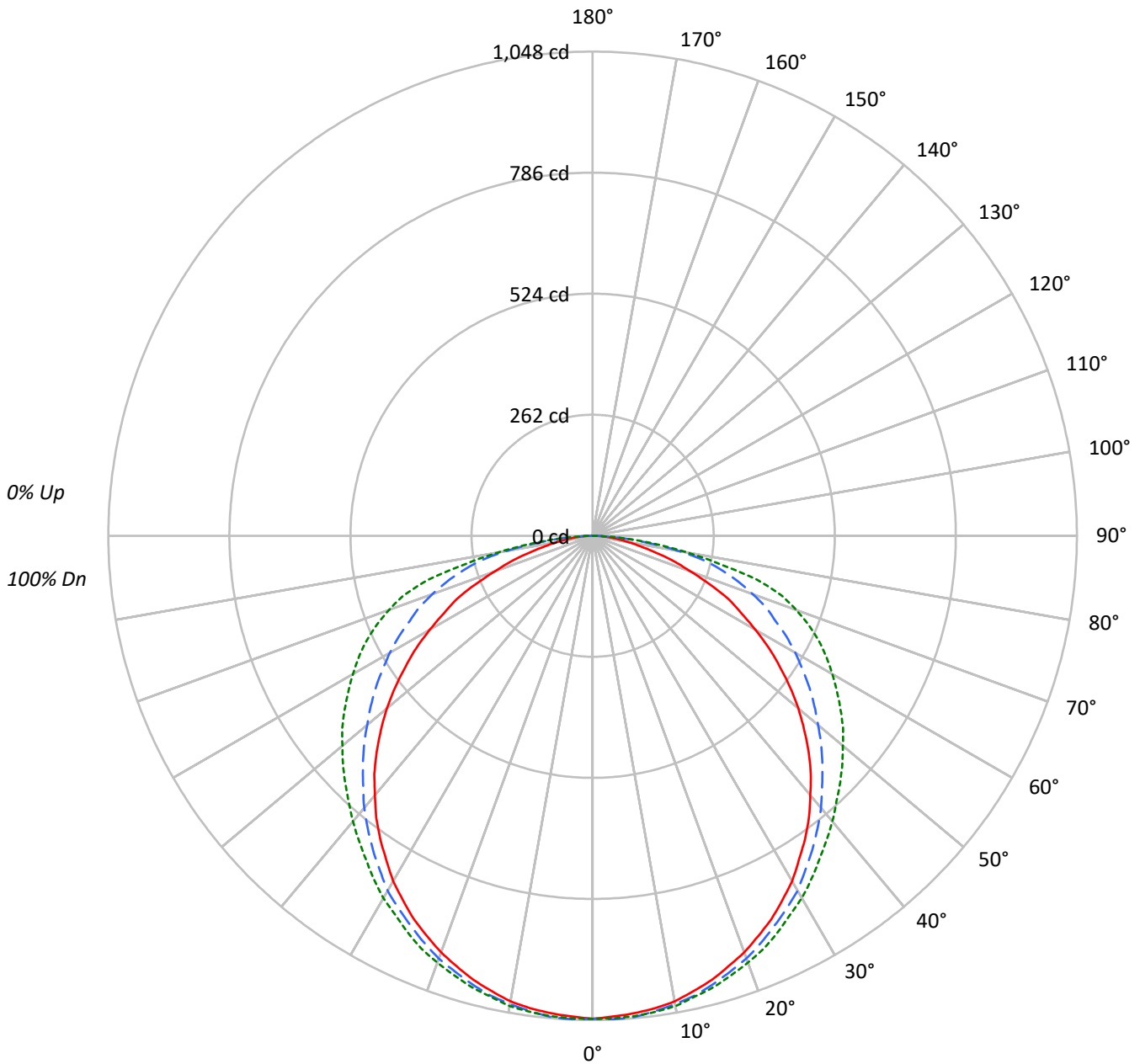
Lumens per Lamp: N/A
Luminaire Lumens: 3175.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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				20				20	
RC	80				70				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				100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82				82
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68				68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56				56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48				48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36				36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31				31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28				28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25				25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23				23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2967	2967	2967
5°	2955	2978	2972
10°	2949	2966	2978
15°	2924	2953	2971
20°	2897	2939	2969
25°	2866	2916	2966
30°	2828	2907	2967
35°	2775	2872	2962
40°	2715	2849	2990
45°	2652	2821	3038
50°	2564	2812	3121
55°	2447	2834	3240
60°	2307	2875	3399
65°	2179	2931	3631
70°	1861	3058	3888
75°	1560	3185	4041
80°	1278	3077	3371
85°	1107	2279	2474



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	3.1
10°-20°	283.4	8.9
20°-30°	429.6	13.5
30°-40°	518.7	16.3
40°-50°	545.0	17.2
50°-60°	512.8	16.2
60°-70°	427.6	13.5
70°-80°	283.3	8.9
80°-90°	75.5	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°	812.1	25.6
0°-40°	1330.8	41.9
0°-60°	2388.6	75.2
0°-90°	3175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1038	1040	1046	1046	1044	99
15°	995	999	1005	1009	1011	281
25°	915	921	931	943	947	421
35°	801	809	829	847	855	501
45°	661	671	703	739	757	509
55°	495	517	573	631	655	443
65°	324	352	437	509	541	316
75°	142	198	290	351	369	154
85°	34	52	70	76	76	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1045.5	1045.5	1045.5	1045.5	1045.5
2.5°	1041.5	1043.5	1047.5	1047.5	1045.5
5°	1037.5	1039.5	1045.5	1045.5	1043.5
7.5°	1031.5	1033.7	1037.5	1041.5	1039.5
10°	1023.5	1025.5	1029.5	1033.7	1033.7
12.5°	1009.4	1011.4	1019.5	1021.7	1021.7
15°	995.4	999.4	1005.4	1009.4	1011.4
17.5°	977.4	981.4	989.4	997.4	997.4
20°	959.4	963.4	973.4	981.4	983.2
22.5°	937.4	943.4	953.4	963.4	967.4
25°	915.4	921.4	931.4	943.4	947.4
27.5°	889.2	895.2	909.4	923.4	925.2
30°	863.2	869.2	887.2	899.2	905.4
32.5°	831.2	839.2	857.2	875.2	881.2
35°	801.2	809.2	829.2	847.4	855.2
37.5°	769.1	776.9	799.2	821.4	831.2
40°	732.9	743.1	769.1	793.2	807.2
42.5°	699.1	709.1	735.1	767.1	781.1
45°	660.9	670.9	703.1	738.9	757.1
47.5°	620.9	632.9	670.9	715.1	732.9
50°	580.9	594.9	636.9	686.9	706.9
52.5°	538.6	556.8	604.9	659.1	682.9
55°	494.6	516.8	572.9	630.9	654.9
57.5°	452.6	472.8	538.6	600.9	626.9
60°	406.6	432.6	506.6	570.7	598.9
62.5°	362.6	390.6	472.8	540.8	570.7
65°	324.5	352.4	436.6	508.6	540.8
67.5°	274.3	312.5	406.6	474.6	506.6
70°	224.3	276.3	368.6	438.6	468.6
72.5°	186.3	236.3	330.5	400.6	428.6
75°	142.3	198.3	290.5	350.6	368.6
77.5°	106.2	164.3	248.3	278.5	280.3
80°	78.2	126.1	188.3	198.3	206.3
82.5°	54.2	88.0	122.3	134.1	138.3
85°	34.0	52.0	70.0	76.0	76.0
87.5°	18.0	20.0	24.0	24.0	24.0
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)