

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: P842950

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294823)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39HE-HRP-UNV-B35
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

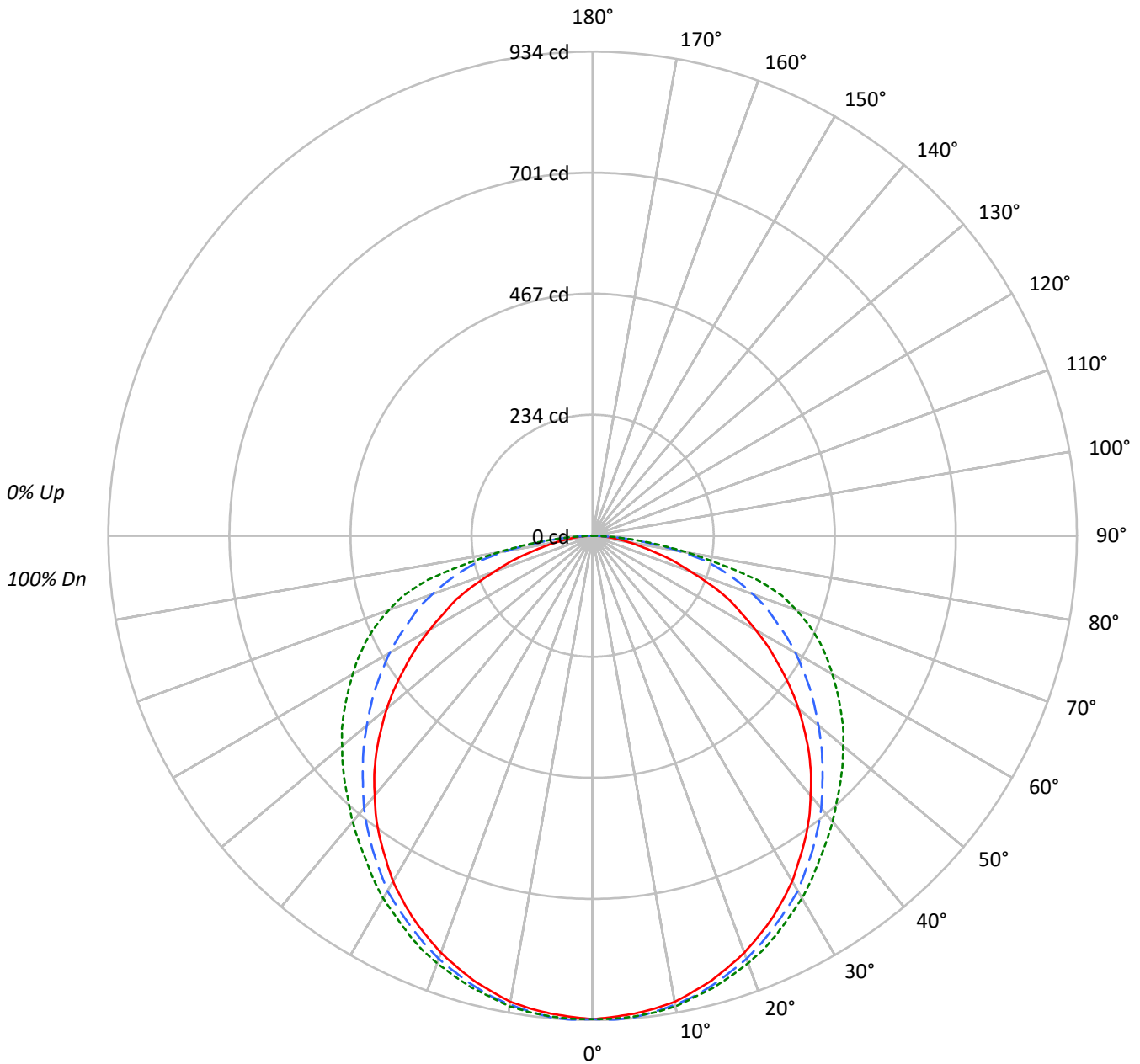
Lumens per Lamp: N/A
Luminaire Lumens: 2832.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 32
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P842950

CATALOG NUMBER: 22CZ2-39HE-HRP-UNV-B35

Luminous Intensity Polar Plot





TEST NUMBER: P842950

CATALOG NUMBER: 22CZ2-39HE-HRP-UNV-B35

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°	2646	2646	2646
5°	2636	2656	2651
10°	2630	2646	2656
15°	2608	2635	2650
20°	2584	2622	2649
25°	2556	2601	2645
30°	2523	2593	2646
35°	2475	2562	2642
40°	2422	2541	2667
45°	2366	2516	2710
50°	2287	2508	2784
55°	2183	2528	2890
60°	2058	2565	3031
65°	1944	2615	3239
70°	1659	2727	3468
75°	1390	2840	3604
80°	1139	2744	3007
85°	993	2038	2207



TEST NUMBER: P842950

CATALOG NUMBER: 22CZ2-39HE-HRP-UNV-B35

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	3.1
10°-20°	252.8	8.9
20°-30°	383.1	13.5
30°-40°	462.7	16.3
40°-50°	486.1	17.2
50°-60°	457.4	16.2
60°-70°	381.4	13.5
70°-80°	252.7	8.9
80°-90°	67.4	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°	724.4	25.6
0°-40°	1187.0	41.9
0°-60°	2130.6	75.2
0°-90°	2832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	925	927	932	932	931	88
15°	888	891	897	900	902	250
25°	816	822	831	841	845	376
35°	715	722	740	756	763	447
45°	590	598	627	659	675	454
55°	441	461	511	563	584	395
65°	290	314	389	454	482	282
75°	127	177	259	313	329	138
85°	30	46	63	68	68	35
90°	0	0	0	0	0	



TEST NUMBER: P842950

CATALOG NUMBER: 22CZ2-39HE-HRP-UNV-B35

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.5	932.5	932.5	932.5	932.5
2.5°	929.0	930.8	934.4	934.4	932.5
5°	925.4	927.1	932.5	932.5	930.8
7.5°	920.0	921.9	925.4	929.0	927.1
10°	912.9	914.6	918.3	921.9	921.9
12.5°	900.4	902.1	909.4	911.0	911.0
15°	887.9	891.4	896.9	900.4	902.1
17.5°	871.8	875.4	882.5	889.8	889.8
20°	855.8	859.3	868.3	875.4	877.2
22.5°	836.2	841.4	850.3	859.3	862.9
25°	816.3	821.8	830.7	841.4	844.9
27.5°	793.2	798.6	811.1	823.6	825.3
30°	770.0	775.3	791.3	802.2	807.6
32.5°	741.5	748.6	764.6	780.7	786.1
35°	714.6	721.7	739.6	755.7	762.7
37.5°	686.0	693.1	712.9	732.5	741.5
40°	653.9	662.8	686.0	707.5	720.0
42.5°	623.4	632.4	655.5	684.3	696.6
45°	589.6	598.4	627.0	659.3	675.4
47.5°	553.8	564.6	598.4	637.8	653.9
50°	518.1	530.6	568.1	612.8	630.7
52.5°	480.5	496.6	539.6	587.8	609.2
55°	441.3	460.9	511.0	562.7	584.2
57.5°	403.8	421.5	480.5	536.0	559.2
60°	362.7	385.9	452.0	509.1	534.1
62.5°	323.3	348.3	421.5	482.4	509.1
65°	289.5	314.3	389.4	453.8	482.4
67.5°	244.7	278.6	362.7	423.4	452.0
70°	200.0	246.5	328.7	391.3	418.0
72.5°	166.2	210.9	294.7	357.3	382.3
75°	126.8	176.9	259.0	312.6	328.7
77.5°	94.7	146.4	221.5	248.4	250.1
80°	69.7	112.6	167.9	176.9	184.0
82.5°	48.2	78.6	108.9	119.7	123.3
85°	30.5	46.5	62.6	67.8	67.8
87.5°	16.1	17.9	21.5	21.5	21.5
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)