

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: P842954

Luminaire Tested: **22CZ2-39HE-RDP-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274731)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39HE-RDP-UNV-B40
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

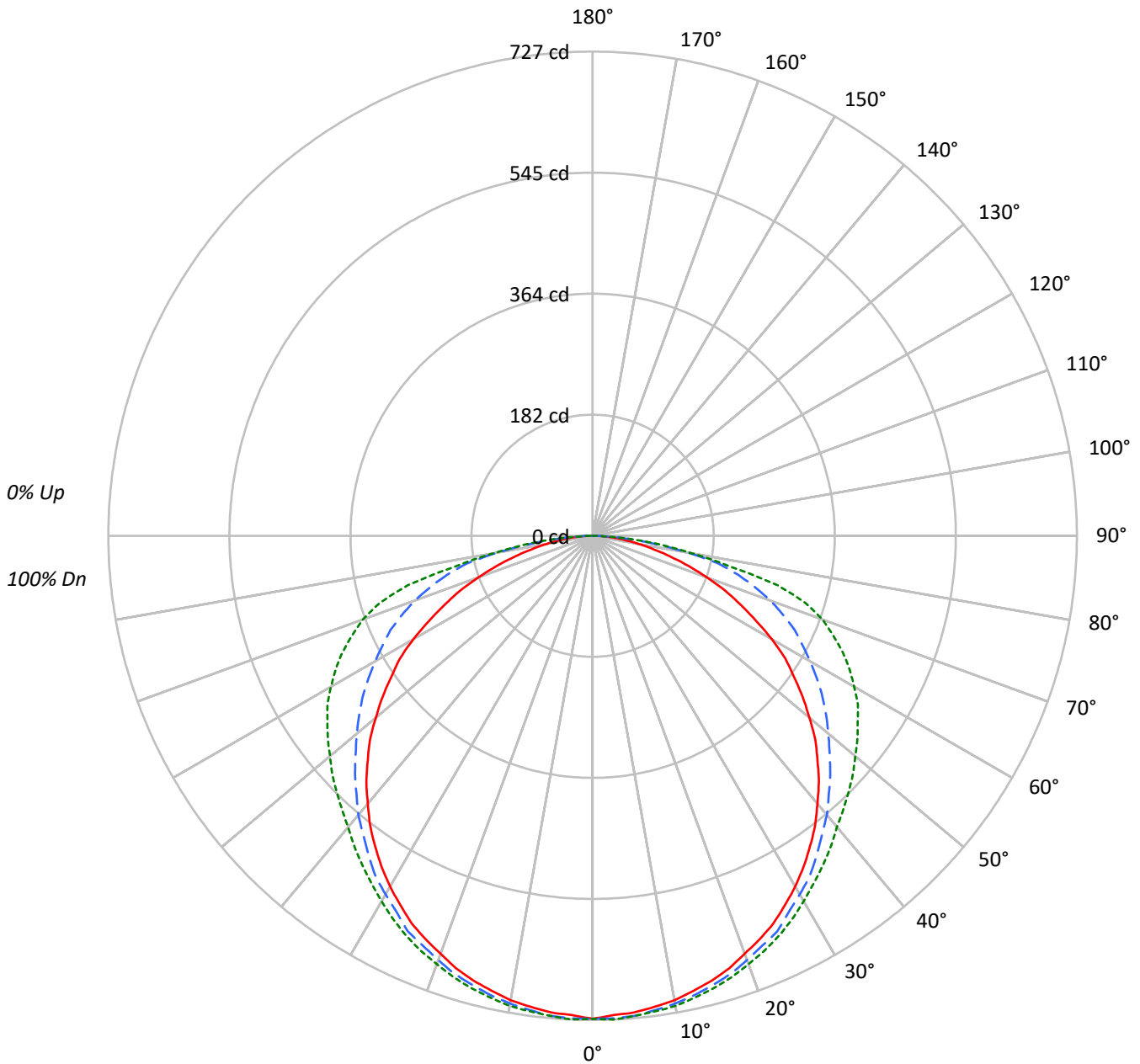
Lumens per Lamp: N/A
Luminaire Lumens: 2309.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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

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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	100	96	92	96	92	89	92	89	86	88	86	84	82																			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67																			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55																			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47																			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35																			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31																			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27																			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2058	2058	2058
5°	2047	2061	2061
10°	2041	2055	2065
15°	2031	2051	2066
20°	2016	2047	2067
25°	2011	2053	2074
30°	1993	2037	2076
35°	1971	2030	2089
40°	1944	2026	2114
45°	1915	2024	2181
50°	1875	2039	2272
55°	1823	2084	2404
60°	1763	2140	2574
65°	1643	2247	2783
70°	1507	2354	3043
75°	1323	2476	3146
80°	1137	2360	2471
85°	993	1713	1879



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	3.0
10°-20°	197.0	8.5
20°-30°	300.6	13.0
30°-40°	367.0	15.9
40°-50°	392.4	17.0
50°-60°	378.7	16.4
60°-70°	326.0	14.1
70°-80°	220.6	9.6
80°-90°	58.2	2.5
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°	566.2	24.5
0°-40°	933.1	40.4
0°-60°	1704.2	73.8
0°-90°	2309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	718	720	724	724	724	68
15°	691	693	698	702	703	195
25°	642	645	656	659	662	296
35°	569	574	586	598	603	356
45°	477	486	504	530	544	368
55°	369	380	421	464	486	330
65°	245	268	335	387	414	243
75°	121	160	226	272	287	129
85°	30	43	53	54	58	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.2	725.2	725.2	725.2	725.2
2.5°	720.3	721.9	725.2	725.2	727.1
5°	718.5	720.3	723.6	723.6	723.6
7.5°	713.3	715.2	718.5	720.3	720.3
10°	708.2	710.1	713.3	715.2	716.8
12.5°	699.8	701.5	706.6	710.1	710.1
15°	691.3	693.1	698.2	701.5	703.3
17.5°	681.2	684.5	689.6	693.1	694.7
20°	667.5	671.0	677.8	682.9	684.5
22.5°	655.7	659.1	665.9	671.0	674.3
25°	642.2	645.4	655.7	659.1	662.4
27.5°	625.2	628.4	637.0	643.8	648.9
30°	608.2	611.5	621.7	630.1	633.6
32.5°	589.4	594.5	606.4	613.1	618.2
35°	569.1	574.0	586.1	598.0	603.1
37.5°	548.7	553.8	565.6	581.0	587.7
40°	524.9	531.7	547.0	567.3	570.8
42.5°	502.8	511.2	524.9	548.7	557.1
45°	477.3	485.9	504.5	530.0	543.6
47.5°	453.5	461.9	482.4	513.1	530.0
50°	424.7	436.6	461.9	497.7	514.7
52.5°	397.5	407.7	441.7	480.7	501.0
55°	368.6	380.5	421.2	463.8	485.9
57.5°	343.1	353.3	399.1	446.8	472.2
60°	310.7	324.5	377.0	428.0	453.5
62.5°	276.8	297.2	354.9	407.7	434.9
65°	244.7	268.4	334.7	387.3	414.5
67.5°	215.6	241.2	309.1	365.2	390.7
70°	181.7	214.0	283.7	338.0	366.8
72.5°	151.2	186.8	254.7	309.1	334.7
75°	120.7	159.6	225.8	271.9	287.0
77.5°	93.5	130.7	193.7	207.2	208.9
80°	69.6	103.5	144.4	146.1	151.2
82.5°	47.5	73.0	93.5	101.9	103.5
85°	30.5	42.6	52.6	54.4	57.7
87.5°	13.5	15.3	18.6	17.0	17.0
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)