

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: P842933

Luminaire Tested: **22CZ2-29HE-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P271965)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29HE-UNV-B40
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

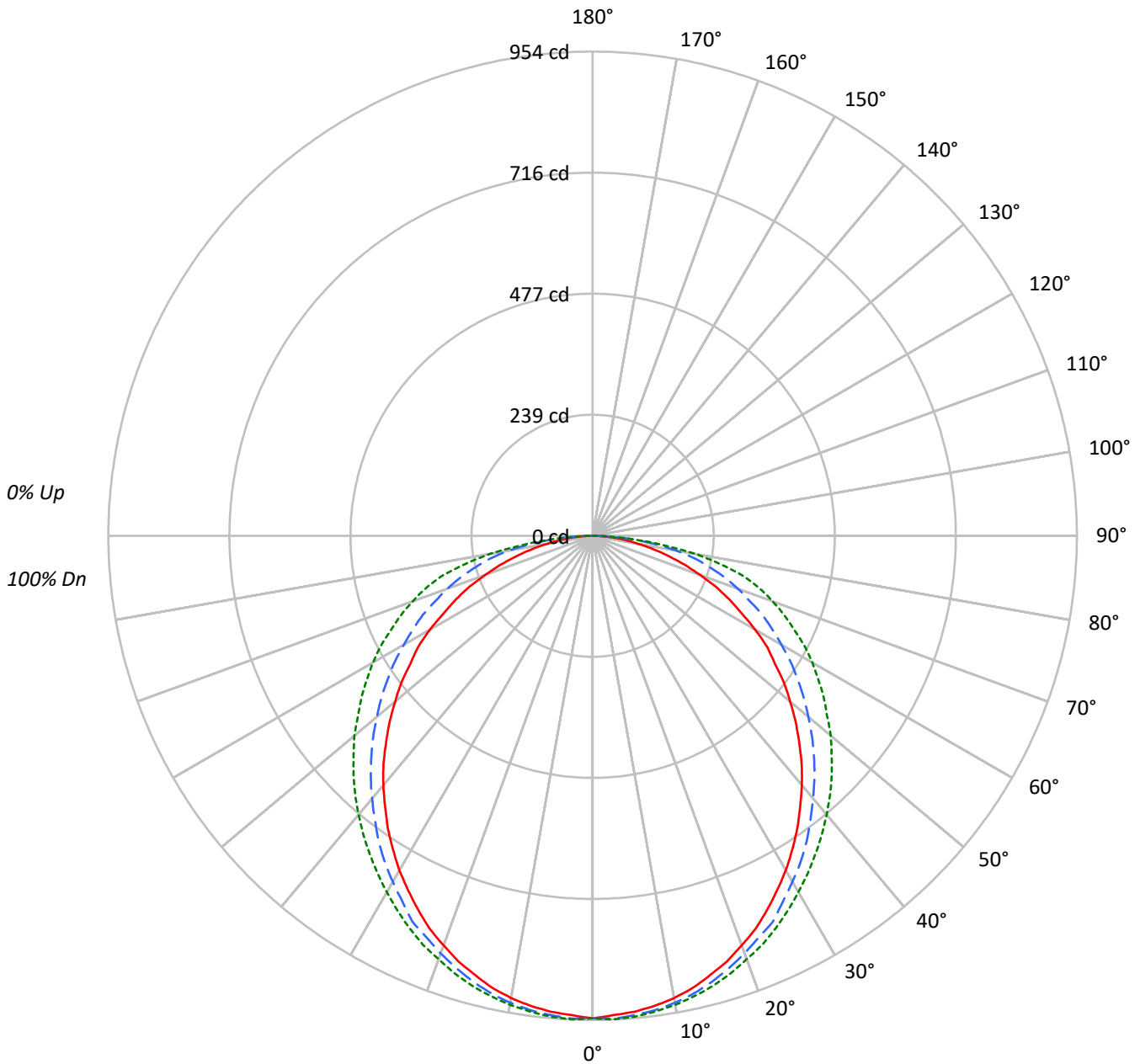
Lumens per Lamp: N/A
Luminaire Lumens: 2797.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 25
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	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56																			
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48																			
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36																			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32																			
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28																			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25																			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2698	2698	2698
5°	2681	2701	2709
10°	2665	2692	2704
15°	2632	2672	2697
20°	2593	2643	2681
25°	2546	2629	2672
30°	2494	2580	2656
35°	2436	2546	2651
40°	2376	2503	2656
45°	2309	2474	2673
50°	2242	2448	2704
55°	2165	2438	2750
60°	2101	2437	2835
65°	1995	2477	2939
70°	1862	2524	3129
75°	1706	2611	3380
80°	1485	2721	3329
85°	1302	2419	2647



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	3.2
10°-20°	256.2	9.2
20°-30°	384.6	13.7
30°-40°	459.5	16.4
40°-50°	477.8	17.1
50°-60°	442.9	15.8
60°-70°	363.3	13.0
70°-80°	245.6	8.8
80°-90°	77.2	2.8
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°	730.7	26.1
0°-40°	1190.2	42.6
0°-60°	2110.9	75.5
0°-90°	2797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	941	943	948	950	951	89
15°	896	900	910	915	918	253
25°	813	820	840	849	853	375
35°	703	713	735	757	765	440
45°	575	586	617	652	666	444
55°	438	452	493	537	556	393
65°	297	314	369	417	438	294
75°	156	182	238	286	308	165
85°	40	55	74	83	81	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.0	951.0	951.0	951.0	951.0
2.5°	945.5	948.2	952.3	953.8	953.8
5°	941.4	942.7	948.2	949.7	951.0
7.5°	934.4	937.2	942.7	944.2	945.5
10°	924.8	927.6	934.4	937.2	938.6
12.5°	912.5	915.2	923.5	927.6	928.9
15°	895.9	900.1	909.7	915.2	918.0
17.5°	879.5	883.5	893.3	901.4	904.2
20°	858.8	868.4	875.4	886.3	887.7
22.5°	838.2	843.7	856.0	867.1	872.6
25°	813.3	820.3	839.6	849.2	853.3
27.5°	787.3	796.9	812.0	827.1	832.6
30°	761.1	767.9	787.3	805.1	810.7
32.5°	732.2	741.9	762.4	780.3	788.6
35°	703.2	712.8	734.9	757.0	765.3
37.5°	671.7	682.7	704.7	730.8	741.9
40°	641.4	649.7	675.7	707.4	717.0
42.5°	609.7	619.3	646.8	681.3	692.3
45°	575.3	586.3	616.6	652.3	666.1
47.5°	542.2	553.3	586.3	622.1	638.5
50°	507.8	521.6	554.6	595.9	612.5
52.5°	474.8	487.3	524.4	567.1	582.1
55°	437.7	451.5	492.8	536.7	555.9
57.5°	407.3	417.0	462.4	507.8	527.1
60°	370.2	382.6	429.4	477.5	499.6
62.5°	330.4	350.9	399.0	448.6	470.7
65°	297.2	313.8	368.9	417.0	437.7
67.5°	262.9	280.8	334.4	385.4	408.8
70°	224.4	247.8	304.2	355.1	377.2
72.5°	189.9	214.8	272.5	322.1	345.5
75°	155.6	181.6	238.2	286.3	308.3
77.5°	122.6	151.4	206.5	243.6	257.4
80°	90.9	118.4	166.5	192.7	203.7
82.5°	63.4	86.7	122.6	136.3	139.0
85°	40.0	55.1	74.3	82.6	81.3
87.5°	17.9	22.1	27.5	30.4	28.9
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)