

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: P842932

Luminaire Tested: **22CZ2-29HE-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842932
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-B35
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

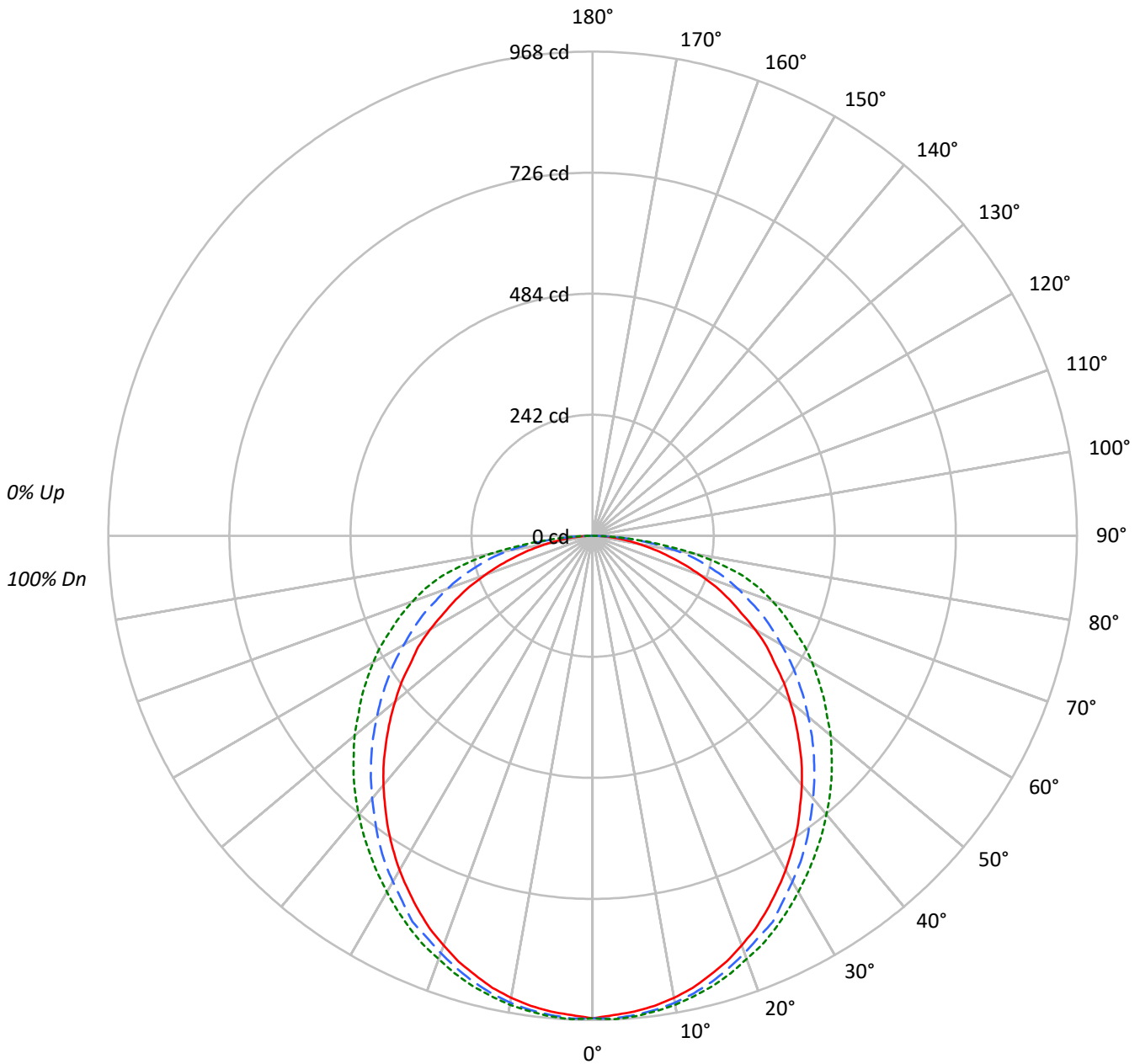
Lumens per Lamp: N/A
Luminaire Lumens: 2837.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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°	2737	2737	2737
5°	2720	2739	2748
10°	2703	2731	2743
15°	2670	2711	2735
20°	2630	2681	2719
25°	2583	2666	2710
30°	2529	2617	2694
35°	2471	2582	2689
40°	2410	2539	2694
45°	2342	2510	2711
50°	2274	2483	2743
55°	2196	2473	2790
60°	2131	2471	2876
65°	2024	2512	2980
70°	1888	2559	3173
75°	1730	2649	3428
80°	1507	2760	3376
85°	1319	2455	2683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	3.2
10°-20°	259.8	9.2
20°-30°	390.1	13.7
30°-40°	466.1	16.4
40°-50°	484.7	17.1
50°-60°	449.2	15.8
60°-70°	368.5	13.0
70°-80°	249.1	8.8
80°-90°	78.3	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°	741.1	26.1
0°-40°	1207.2	42.6
0°-60°	2141.1	75.5
0°-90°	2837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	965	965	965	965	965	
5°	955	956	962	963	965	91
15°	909	913	923	928	931	256
25°	825	832	852	861	866	380
35°	713	723	745	768	776	446
45°	584	595	626	662	676	451
55°	444	458	500	544	564	399
65°	302	318	374	423	444	298
75°	158	184	242	290	313	167
85°	40	56	75	84	82	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	964.6	964.6	964.6	964.6	964.6
2.5°	959.1	961.7	966.0	967.5	967.5
5°	954.9	956.2	961.7	963.3	964.6
7.5°	947.8	950.6	956.2	957.7	959.1
10°	938.0	940.9	947.8	950.6	952.0
12.5°	925.6	928.3	936.7	940.9	942.2
15°	908.8	913.0	922.7	928.3	931.1
17.5°	892.1	896.1	906.1	914.3	917.2
20°	871.1	880.8	887.9	899.0	900.3
22.5°	850.2	855.8	868.2	879.5	885.0
25°	825.0	832.0	851.6	861.3	865.5
27.5°	798.6	808.3	823.6	838.9	844.5
30°	772.0	778.9	798.6	816.6	822.3
32.5°	742.7	752.5	773.3	791.5	799.9
35°	713.3	723.0	745.4	767.8	776.2
37.5°	681.3	692.4	714.8	741.2	752.5
40°	650.5	658.9	685.4	717.5	727.2
42.5°	618.4	628.2	656.1	691.1	702.2
45°	583.6	594.7	625.5	661.6	675.6
47.5°	549.9	561.2	594.7	631.0	647.7
50°	515.1	529.1	562.5	604.4	621.3
52.5°	481.6	494.2	531.9	575.2	590.5
55°	443.9	457.9	499.8	544.4	563.9
57.5°	413.2	422.9	469.0	515.1	534.6
60°	375.5	388.1	435.5	484.3	506.7
62.5°	335.1	356.0	404.8	455.1	477.4
65°	301.5	318.3	374.1	422.9	443.9
67.5°	266.6	284.8	339.1	391.0	414.7
70°	227.6	251.3	308.5	360.2	382.5
72.5°	192.6	217.9	276.4	326.7	350.4
75°	157.8	184.2	241.6	290.4	312.7
77.5°	124.3	153.6	209.4	247.1	261.1
80°	92.2	120.1	168.9	195.5	206.6
82.5°	64.3	88.0	124.3	138.3	141.0
85°	40.5	55.9	75.4	83.8	82.4
87.5°	18.2	22.4	27.9	30.8	29.3
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)