

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: P842926

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272009)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-29HE-S-UNV-B35  
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

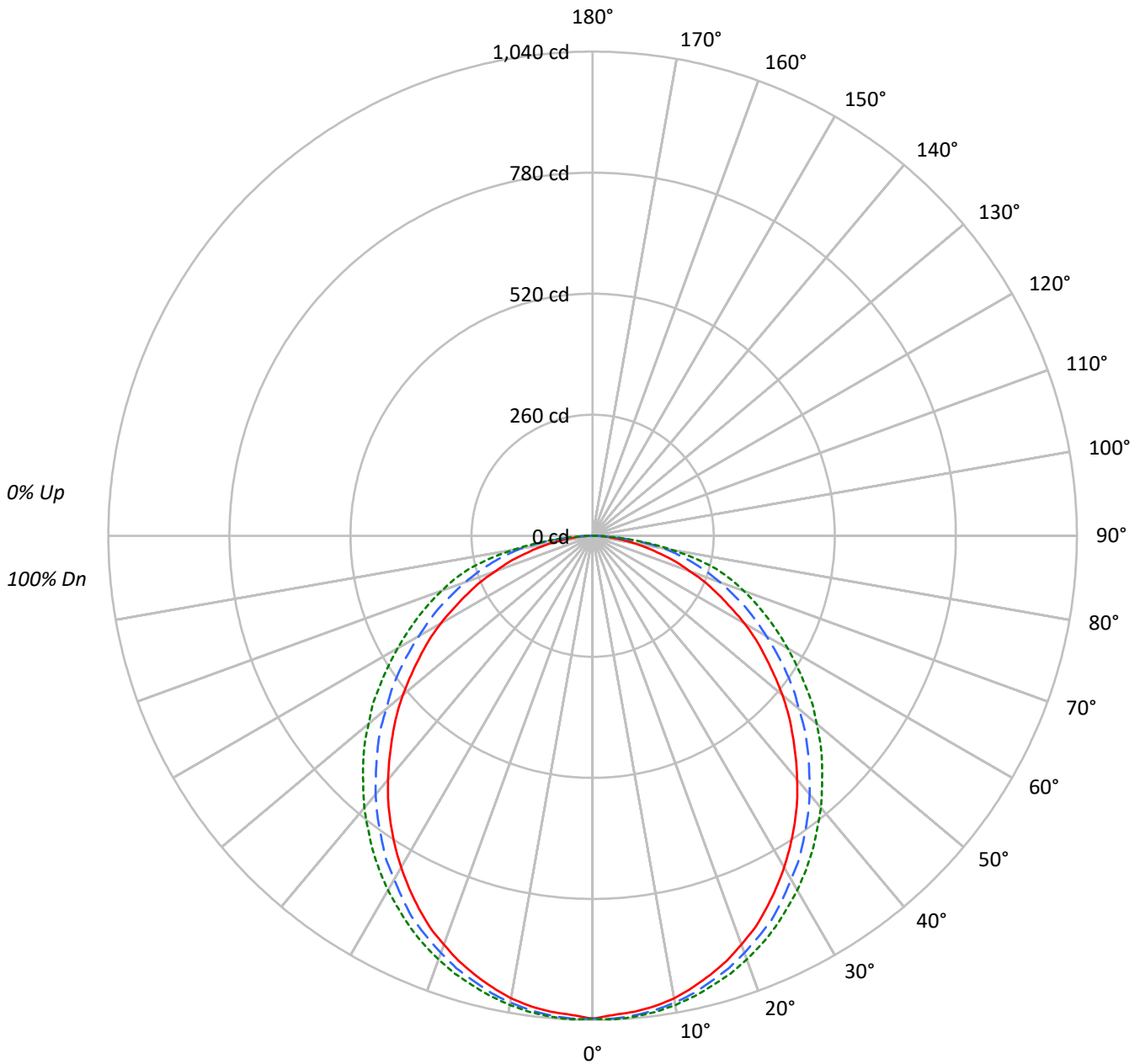
Lumens per Lamp: N/A  
Luminaire Lumens: 2894.0 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P842926

CATALOG NUMBER: 22CZ2-29HE-S-UNV-B35

### 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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49																			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43																			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37																			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2943	2943	2943
5°	2923	2946	2954
10°	2906	2933	2949
15°	2868	2907	2936
20°	2821	2878	2924
25°	2765	2849	2905
30°	2695	2792	2880
35°	2619	2741	2853
40°	2531	2686	2826
45°	2438	2622	2796
50°	2348	2552	2772
55°	2238	2505	2752
60°	2138	2444	2743
65°	1995	2430	2774
70°	1838	2408	2856
75°	1658	2443	3006
80°	1433	2515	2824
85°	1185	2110	2110



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	3.4
10°-20°	279.1	9.6
20°-30°	417.6	14.4
30°-40°	494.5	17.1
40°-50°	504.0	17.4
50°-60°	451.7	15.6
60°-70°	353.6	12.2
70°-80°	228.1	7.9
80°-90°	67.3	2.3
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°	794.7	27.5
0°-40°	1289.3	44.5
0°-60°	2245.0	77.6
0°-90°	2894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2894.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1037	1037	1037	1037	1037	
5°	1026	1029	1034	1036	1037	97
15°	976	982	990	998	999	275
25°	883	891	910	922	928	406
35°	756	766	791	816	824	473
45°	608	621	654	687	697	469
55°	452	467	506	542	556	406
65°	297	314	362	397	413	295
75°	151	174	223	261	274	162
85°	36	50	65	65	65	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1037.0	1037.0	1037.0	1037.0	1037.0
2.5°	1030.2	1033.0	1038.3	1039.8	1039.8
5°	1026.3	1028.9	1034.3	1035.7	1037.0
7.5°	1019.4	1020.8	1027.6	1030.2	1031.7
10°	1008.7	1011.3	1018.1	1022.2	1023.5
12.5°	993.7	997.8	1005.9	1011.3	1012.8
15°	976.3	981.7	989.7	997.8	999.3
17.5°	957.3	962.8	973.6	983.0	985.8
20°	934.3	941.2	953.2	964.1	968.2
22.5°	911.4	916.8	931.7	945.2	949.3
25°	883.1	891.2	910.1	922.3	927.7
27.5°	853.3	862.7	881.8	897.9	903.3
30°	822.4	831.8	852.0	872.3	879.0
32.5°	789.8	800.8	825.0	845.3	852.0
35°	756.2	765.6	791.3	815.6	823.7
37.5°	721.0	729.2	758.9	784.5	792.6
40°	683.3	694.0	725.1	754.9	762.8
42.5°	645.4	657.6	688.6	721.0	729.2
45°	607.6	621.1	653.5	687.3	696.8
47.5°	571.2	581.9	618.5	650.9	664.4
50°	531.9	542.8	578.0	614.4	627.9
52.5°	491.4	506.4	544.1	579.3	595.4
55°	452.4	467.2	506.4	541.5	556.3
57.5°	415.9	428.0	468.5	504.9	519.9
60°	376.7	387.6	430.7	469.9	483.4
62.5°	334.9	351.0	395.6	432.0	448.3
65°	297.1	314.5	361.9	397.0	413.1
67.5°	262.0	278.1	324.1	361.9	379.5
70°	221.5	243.1	290.3	328.0	344.3
72.5°	189.1	208.0	256.6	294.4	311.9
75°	151.2	174.1	222.8	260.7	274.2
77.5°	120.3	143.2	189.1	218.7	225.5
80°	87.7	110.7	153.9	168.7	172.8
82.5°	59.4	81.0	110.7	114.7	116.2
85°	36.4	50.0	64.8	64.8	64.8
87.5°	17.6	20.2	22.9	21.6	21.6
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)