

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: P881083

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

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P881083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475230)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29VHE-S-UNV-B35
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

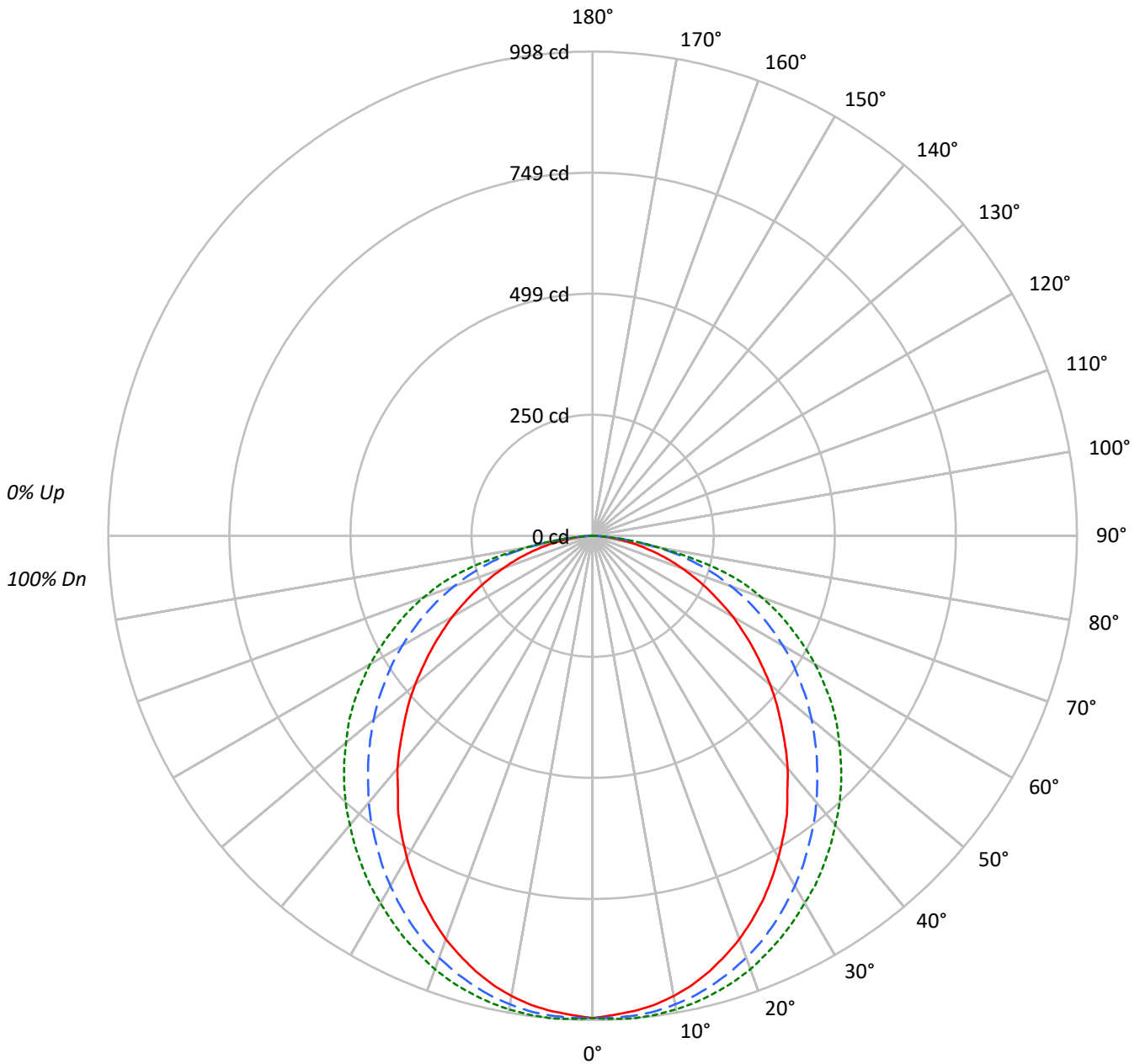
Lumens per Lamp: N/A
Luminaire Lumens: 2846.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): 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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83																			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	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	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2821	2821	2821
5°	2801	2828	2844
10°	2775	2826	2857
15°	2731	2813	2865
20°	2671	2794	2871
25°	2597	2766	2868
30°	2509	2731	2864
35°	2419	2690	2873
40°	2317	2657	2882
45°	2206	2623	2906
50°	2111	2600	2928
55°	1998	2579	2974
60°	1894	2569	3006
65°	1768	2549	3029
70°	1624	2510	3070
75°	1467	2443	2961
80°	1257	2164	2229
85°	1009	1273	1009



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	3.3
10°-20°	269.5	9.5
20°-30°	404.7	14.2
30°-40°	482.7	17.0
40°-50°	499.1	17.5
50°-60°	458.8	16.1
60°-70°	365.3	12.8
70°-80°	223.2	7.8
80°-90°	48.5	1.7
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°	768.5	27.0
0°-40°	1251.2	44.0
0°-60°	2209.1	77.6
0°-90°	2846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	983	986	993	997	998	93
15°	930	940	958	971	975	262
25°	830	850	883	908	916	381
35°	698	728	777	817	830	436
45°	550	589	654	706	724	425
55°	404	448	521	581	601	361
65°	263	308	380	432	451	261
75°	134	173	223	262	270	142
85°	31	38	39	34	31	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	994.2	994.2	994.2	994.2	994.2
2.5°	988.8	990.0	994.2	996.9	996.9
5°	983.3	986.1	992.8	996.9	998.3
7.5°	975.3	979.3	988.8	994.2	995.7
10°	963.1	968.6	980.7	988.8	991.4
12.5°	948.3	956.4	971.2	982.1	984.7
15°	929.5	940.2	957.6	971.2	975.3
17.5°	907.8	921.2	942.9	959.1	964.5
20°	884.7	898.3	925.3	944.2	950.9
22.5°	857.7	875.3	906.4	928.1	933.4
25°	829.5	849.6	883.4	907.8	915.9
27.5°	798.3	822.7	859.1	888.9	895.7
30°	765.8	791.5	833.4	865.9	874.0
32.5°	732.0	761.9	806.4	842.9	853.8
35°	698.2	728.1	776.7	817.4	829.5
37.5°	659.1	694.3	748.4	790.3	805.0
40°	625.5	659.1	717.4	763.2	778.1
42.5°	587.5	624.1	684.9	734.8	752.4
45°	549.8	588.9	653.7	706.5	724.1
47.5°	514.6	553.7	621.3	676.8	694.3
50°	478.2	518.7	588.9	645.6	663.2
52.5°	439.0	483.5	556.5	613.2	633.6
55°	403.9	448.4	521.3	580.8	601.1
57.5°	367.3	413.4	489.0	545.8	564.7
60°	333.7	378.2	452.7	507.9	529.6
62.5°	297.1	343.0	416.0	470.1	490.4
65°	263.3	308.0	379.6	432.3	451.1
67.5°	229.5	274.3	341.6	391.8	413.4
70°	195.7	240.5	302.5	351.3	370.1
72.5°	166.2	205.4	264.7	309.4	327.0
75°	133.8	173.0	222.8	262.0	270.1
77.5°	104.0	139.2	181.1	198.5	201.4
80°	76.9	104.0	132.4	136.4	136.4
82.5°	51.2	71.6	82.4	83.6	82.4
85°	31.0	37.8	39.1	33.8	31.0
87.5°	10.7	10.7	6.7	4.0	1.4
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)