

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: P842921

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294823)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29HE-HRP-UNV-B40
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

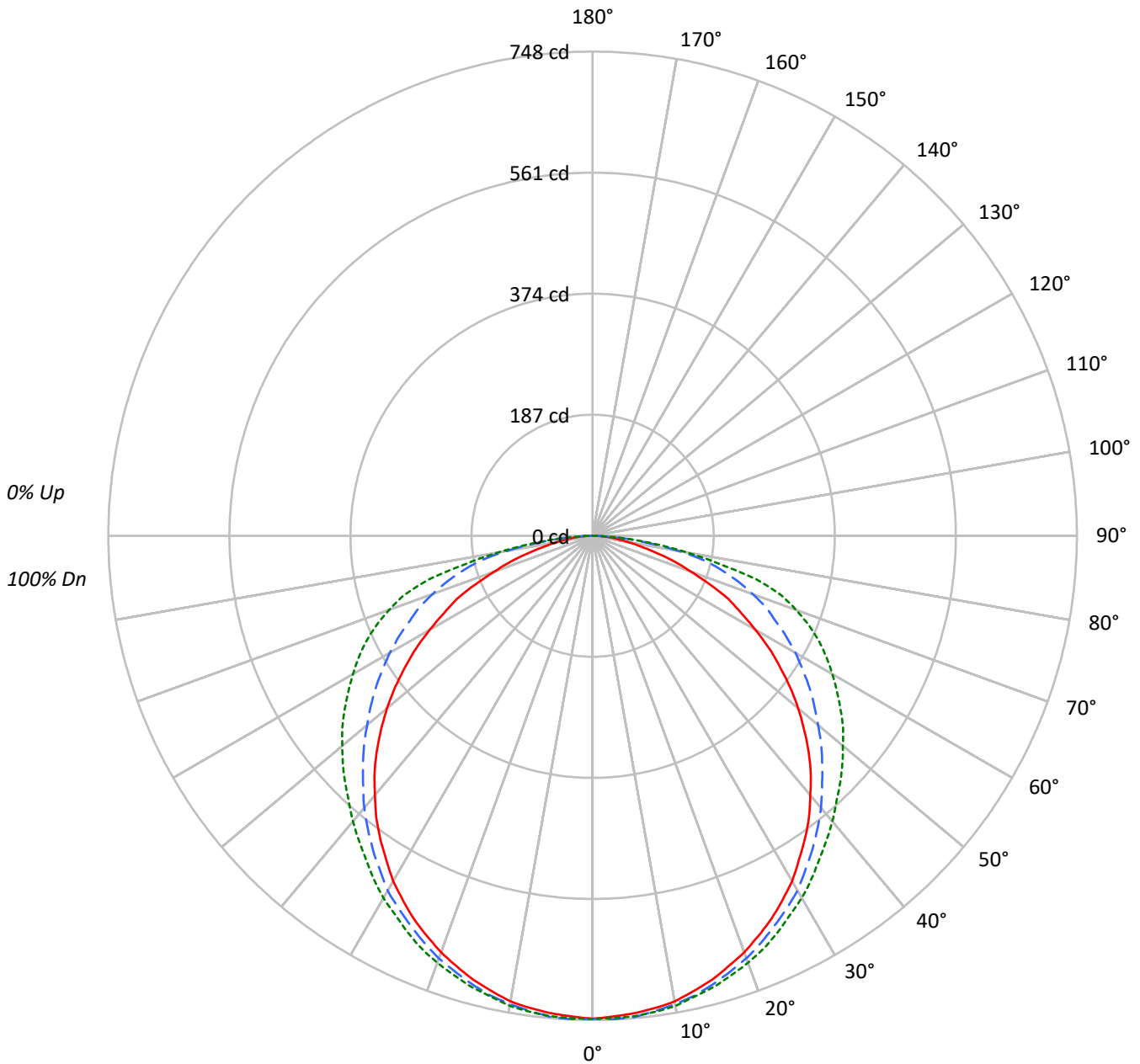
Lumens per Lamp: N/A
Luminaire Lumens: 2266.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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	87	84	82																			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2117	2117	2117
5°	2109	2125	2121
10°	2105	2117	2125
15°	2087	2108	2120
20°	2068	2098	2119
25°	2045	2081	2117
30°	2019	2075	2117
35°	1981	2050	2114
40°	1938	2033	2134
45°	1893	2013	2169
50°	1830	2007	2228
55°	1747	2023	2312
60°	1647	2052	2426
65°	1555	2092	2592
70°	1327	2182	2774
75°	1113	2273	2883
80°	910	2195	2405
85°	794	1631	1765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	3.1
10°-20°	202.3	8.9
20°-30°	306.6	13.5
30°-40°	370.2	16.3
40°-50°	389.0	17.2
50°-60°	366.0	16.2
60°-70°	305.2	13.5
70°-80°	202.2	8.9
80°-90°	53.9	2.4
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°	579.6	25.6
0°-40°	949.8	41.9
0°-60°	1704.8	75.2
0°-90°	2266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	740	742	746	746	745	70
15°	710	713	718	720	722	200
25°	653	658	665	673	676	301
35°	572	577	592	605	610	358
45°	472	479	502	528	540	363
55°	353	369	409	450	467	316
65°	232	252	312	363	386	225
75°	102	142	207	250	263	110
85°	24	37	50	54	54	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.1	746.1	746.1	746.1	746.1
2.5°	743.3	744.8	747.6	747.6	746.1
5°	740.5	741.8	746.1	746.1	744.8
7.5°	736.1	737.6	740.5	743.3	741.8
10°	730.5	731.8	734.8	737.6	737.6
12.5°	720.4	721.8	727.6	729.0	729.0
15°	710.4	713.3	717.6	720.4	721.8
17.5°	697.6	700.4	706.1	711.9	711.9
20°	684.7	687.6	694.7	700.4	701.9
22.5°	669.0	673.2	680.4	687.6	690.4
25°	653.2	657.5	664.7	673.2	676.1
27.5°	634.7	639.0	649.0	659.0	660.4
30°	616.1	620.3	633.2	641.8	646.2
32.5°	593.3	599.0	611.8	624.7	629.0
35°	571.8	577.4	591.8	604.6	610.3
37.5°	548.9	554.6	570.4	586.1	593.3
40°	523.2	530.4	548.9	566.1	576.1
42.5°	498.8	506.0	524.5	547.6	557.4
45°	471.8	478.8	501.7	527.5	540.4
47.5°	443.1	451.8	478.8	510.3	523.2
50°	414.5	424.6	454.6	490.3	504.7
52.5°	384.5	397.4	431.7	470.3	487.5
55°	353.1	368.8	408.9	450.3	467.4
57.5°	323.1	337.3	384.5	428.9	447.4
60°	290.2	308.7	361.6	407.4	427.4
62.5°	258.7	278.7	337.3	386.0	407.4
65°	231.6	251.5	311.6	363.1	386.0
67.5°	195.8	223.0	290.2	338.8	361.6
70°	160.0	197.3	263.0	313.1	334.4
72.5°	133.0	168.7	235.8	285.9	305.9
75°	101.5	141.5	207.3	250.2	263.0
77.5°	75.8	117.2	177.2	198.8	200.1
80°	55.7	90.1	134.3	141.5	147.2
82.5°	38.6	62.9	87.1	95.8	98.6
85°	24.4	37.2	50.1	54.2	54.2
87.5°	12.9	14.4	17.2	17.2	17.2
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)