

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: P880687

Luminaire Tested: **22CZ2-29VHE-S-B2750-W2D-2700K**

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: P880687
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-B2750-W2D-2700K
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

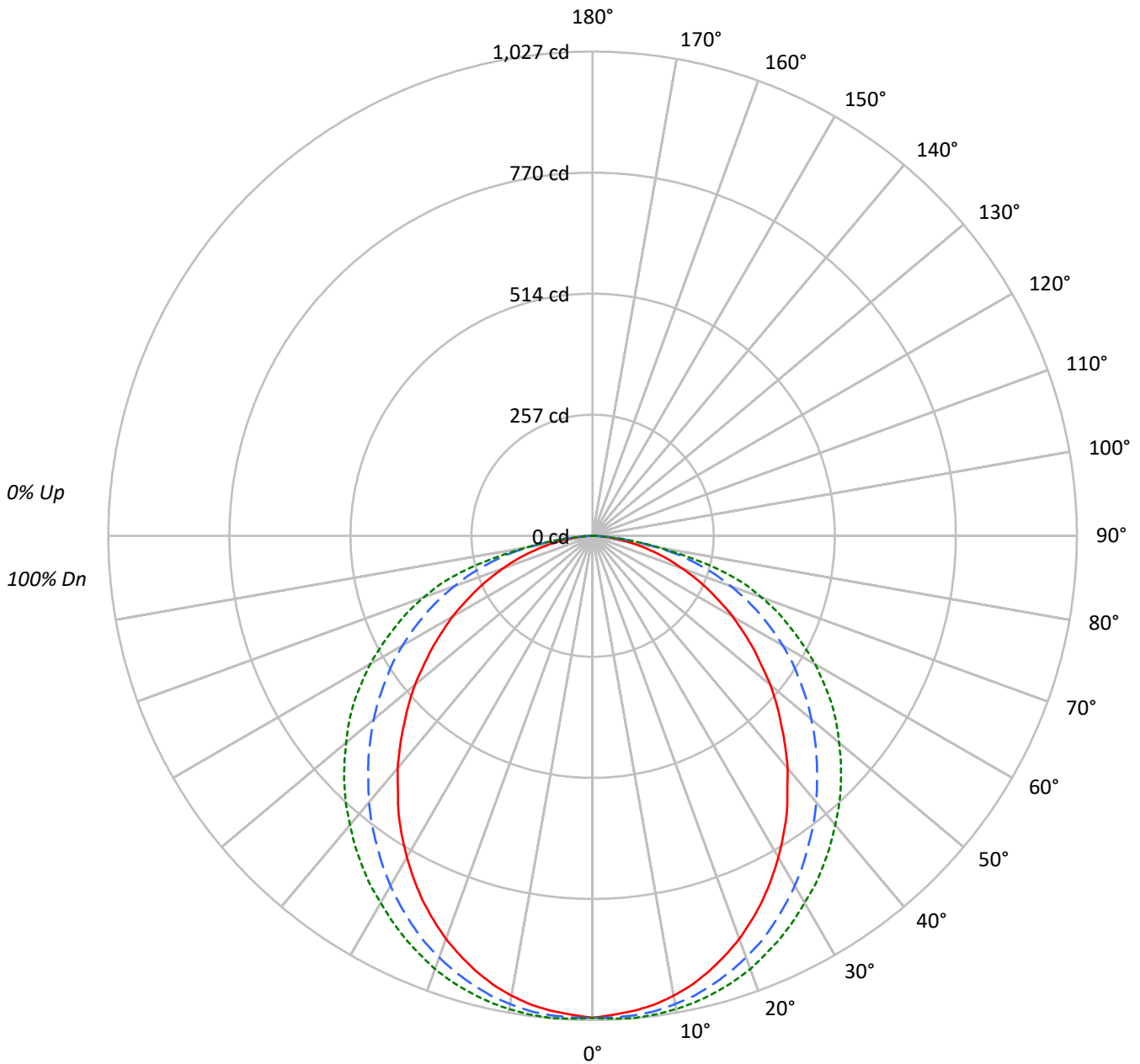
Lumens per Lamp: N/A
Luminaire Lumens: 2927.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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				20				20	
RC	80				70				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				100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83				83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69				69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58				58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49				49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43				43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37				37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33				33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29				29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26				26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2901	2901	2901
5°	2881	2908	2924
10°	2854	2906	2938
15°	2808	2893	2947
20°	2747	2874	2953
25°	2671	2845	2949
30°	2581	2809	2945
35°	2487	2767	2955
40°	2383	2733	2964
45°	2269	2698	2988
50°	2171	2674	3011
55°	2055	2653	3059
60°	1948	2642	3091
65°	1818	2621	3115
70°	1670	2581	3158
75°	1509	2513	3045
80°	1293	2226	2293
85°	1039	1312	1039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	3.3
10°-20°	277.1	9.5
20°-30°	416.3	14.2
30°-40°	496.4	17.0
40°-50°	513.3	17.5
50°-60°	471.9	16.1
60°-70°	375.7	12.8
70°-80°	229.5	7.8
80°-90°	49.9	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°	790.3	27.0
0°-40°	1286.8	44.0
0°-60°	2271.9	77.6
0°-90°	2927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1011	1014	1021	1025	1027	96
15°	956	967	985	999	1003	269
25°	853	874	909	934	942	392
35°	718	749	799	841	853	448
45°	565	606	672	727	745	437
55°	415	461	536	597	618	372
65°	271	317	390	445	464	268
75°	138	178	229	269	278	146
85°	32	39	40	35	32	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.5	1022.5	1022.5	1022.5	1022.5
2.5°	1016.9	1018.2	1022.5	1025.3	1025.3
5°	1011.3	1014.1	1021.0	1025.3	1026.7
7.5°	1003.1	1007.2	1016.9	1022.5	1024.0
10°	990.5	996.2	1008.6	1016.9	1019.6
12.5°	975.3	983.6	998.9	1010.0	1012.7
15°	955.9	966.9	984.9	998.9	1003.1
17.5°	933.6	947.4	969.8	986.4	991.9
20°	909.8	923.8	951.7	971.0	977.9
22.5°	882.2	900.2	932.2	954.5	960.0
25°	853.1	873.8	908.6	933.6	941.9
27.5°	821.0	846.1	883.6	914.2	921.2
30°	787.6	814.1	857.2	890.5	898.8
32.5°	752.9	783.5	829.3	866.9	878.1
35°	718.1	748.8	798.8	840.6	853.1
37.5°	677.9	714.0	769.7	812.8	827.9
40°	643.3	677.9	737.8	785.0	800.2
42.5°	604.3	641.8	704.4	755.7	773.8
45°	565.4	605.7	672.4	726.6	744.7
47.5°	529.2	569.5	639.0	696.1	714.0
50°	491.8	533.5	605.7	664.0	682.1
52.5°	451.5	497.3	572.3	630.7	651.6
55°	415.4	461.1	536.2	597.3	618.3
57.5°	377.8	425.1	503.0	561.3	580.8
60°	343.2	388.9	465.5	522.3	544.6
62.5°	305.6	352.8	427.8	483.5	504.4
65°	270.8	316.8	390.4	444.6	464.0
67.5°	236.1	282.2	351.4	402.9	425.1
70°	201.3	247.4	311.1	361.3	380.6
72.5°	171.0	211.2	272.2	318.2	336.3
75°	137.6	177.9	229.2	269.4	277.7
77.5°	106.9	143.1	186.2	204.1	207.1
80°	79.1	106.9	136.2	140.3	140.3
82.5°	52.7	73.6	84.8	86.0	84.8
85°	31.9	38.8	40.3	34.8	31.9
87.5°	11.0	11.0	6.9	4.1	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)