

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: P731856

Luminaire Tested: **14CZ2-29-SQR-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-SQR-B2750-W2D-2700K
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

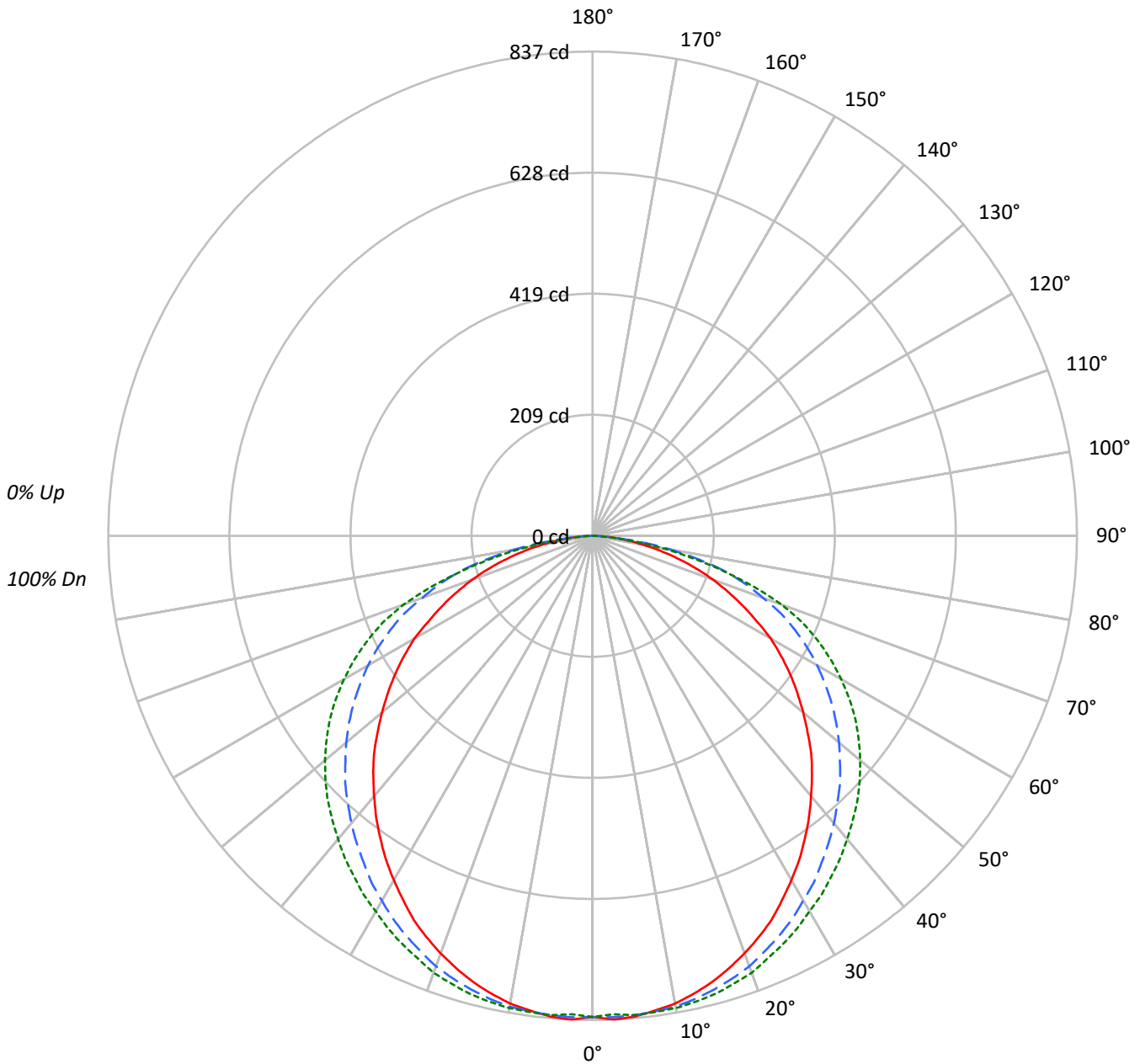
Lumens per Lamp: N/A
Luminaire Lumens: 2632.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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					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								
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83								
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	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	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48								
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41								
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35								
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31								
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28								
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25								
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2348	2348	2348
5°	2364	2357	2357
10°	2354	2369	2376
15°	2334	2372	2396
20°	2307	2379	2415
25°	2280	2375	2425
30°	2240	2374	2443
35°	2203	2377	2478
40°	2165	2390	2522
45°	2134	2414	2584
50°	2085	2441	2651
55°	2050	2481	2729
60°	2007	2531	2800
65°	1914	2578	2871
70°	1817	2583	2868
75°	1663	2576	2531
80°	1422	2199	1962
85°	1117	1244	732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	3.0
10°-20°	228.3	8.7
20°-30°	349.2	13.3
30°-40°	428.0	16.3
40°-50°	460.3	17.5
50°-60°	442.3	16.8
60°-70°	368.3	14.0
70°-80°	226.1	8.6
80°-90°	50.3	1.9
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°	656.6	24.9
0°-40°	1084.6	41.2
0°-60°	1987.2	75.5
0°-90°	2632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	834	826	832	832	832	79
15°	799	796	812	817	820	225
25°	732	739	763	772	779	337
35°	639	655	690	708	719	400
45°	535	558	605	633	647	411
55°	416	452	504	538	554	372
65°	286	330	386	418	430	284
75°	152	199	236	235	232	162
85°	34	52	38	26	23	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	831.8	831.8	831.8	831.8	831.8
2.5°	837.0	829.1	833.1	831.8	827.8
5°	834.4	826.5	831.8	831.8	831.8
7.5°	827.8	821.2	829.1	830.4	830.4
10°	821.2	815.8	826.5	827.8	829.1
12.5°	810.5	806.5	819.9	822.4	825.0
15°	798.6	796.0	811.8	817.1	819.9
17.5°	784.0	785.3	802.6	809.2	811.8
20°	768.0	772.1	791.9	798.6	803.9
22.5°	750.8	756.1	777.4	785.3	790.6
25°	732.2	738.8	762.7	772.1	778.7
27.5°	709.6	720.3	746.9	758.8	765.5
30°	687.2	699.1	728.3	742.9	749.5
32.5°	664.6	677.8	711.1	725.6	736.2
35°	639.4	655.4	689.8	708.3	719.0
37.5°	614.2	632.8	669.9	691.0	703.0
40°	587.6	607.6	648.6	672.5	684.4
42.5°	561.1	583.7	626.2	652.6	665.9
45°	534.6	558.5	604.8	632.8	647.3
47.5°	504.1	533.3	579.7	611.5	626.2
50°	474.9	506.7	555.8	589.0	603.6
52.5°	445.7	478.9	530.6	565.1	579.7
55°	416.5	452.3	504.1	538.5	554.5
57.5°	386.0	423.1	476.2	512.0	526.6
60°	355.5	394.0	448.4	481.5	496.0
62.5°	319.6	364.8	417.9	451.0	464.2
65°	286.5	330.3	386.0	417.9	429.9
67.5°	253.4	298.5	352.9	382.1	392.6
70°	220.2	265.4	313.0	340.9	347.5
72.5°	187.1	232.1	277.3	293.1	290.6
75°	152.5	199.0	236.2	234.9	232.1
77.5°	119.5	164.5	187.1	177.7	173.9
80°	87.5	131.4	135.3	126.1	120.7
82.5°	59.7	94.1	84.9	74.3	68.9
85°	34.5	51.7	38.4	26.5	22.6
87.5°	14.5	13.2	4.0	4.0	2.6
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)