

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: P880667

Luminaire Tested: **22CZ2-24VHE-SQR-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: P880667
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: 22CZ2-24VHE-SQR-B2750-W2D-2700K
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

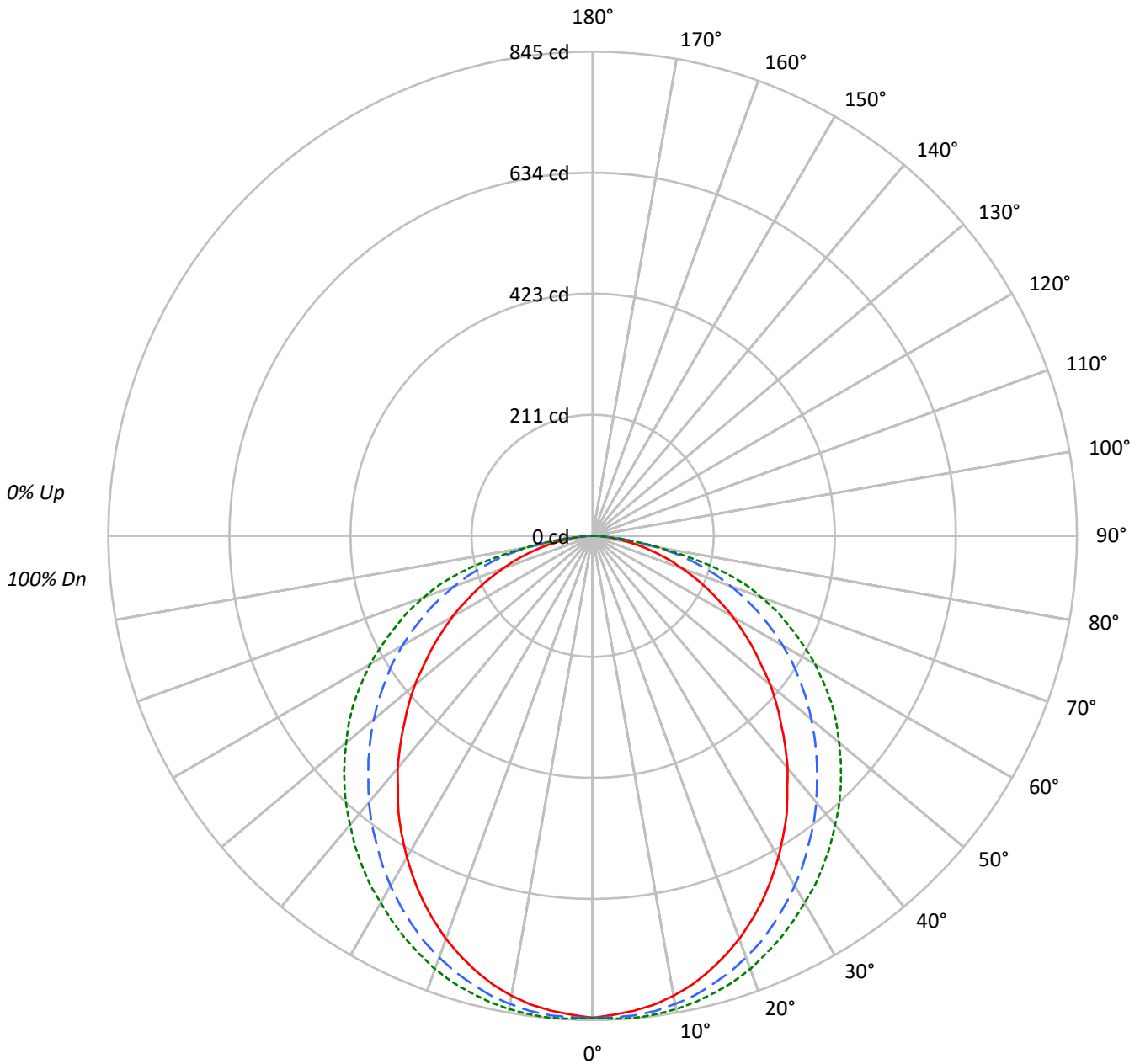
Lumens per Lamp: N/A
Luminaire Lumens: 2408.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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°	2387	2387	2387
5°	2370	2393	2406
10°	2348	2391	2417
15°	2310	2380	2424
20°	2260	2364	2429
25°	2197	2340	2426
30°	2123	2311	2423
35°	2047	2277	2431
40°	1960	2248	2438
45°	1867	2220	2459
50°	1786	2200	2477
55°	1690	2182	2516
60°	1602	2174	2543
65°	1496	2156	2563
70°	1374	2123	2598
75°	1241	2067	2505
80°	1064	1832	1886
85°	856	1078	856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	3.3
10°-20°	228.0	9.5
20°-30°	342.5	14.2
30°-40°	408.4	17.0
40°-50°	422.3	17.5
50°-60°	388.2	16.1
60°-70°	309.0	12.8
70°-80°	188.8	7.8
80°-90°	41.0	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°	650.2	27.0
0°-40°	1058.6	44.0
0°-60°	1869.1	77.6
0°-90°	2408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2408.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	841	841	841	841	841	
5°	832	834	840	844	845	79
15°	786	796	810	822	825	221
25°	702	719	748	768	775	323
35°	591	616	657	692	702	369
45°	465	498	553	598	613	360
55°	342	379	441	491	509	306
65°	223	261	321	366	382	221
75°	113	146	188	222	228	121
85°	26	32	33	29	26	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	841.2	841.2	841.2	841.2	841.2
2.5°	836.6	837.7	841.2	843.5	843.5
5°	832.0	834.3	840.0	843.5	844.6
7.5°	825.2	828.6	836.6	841.2	842.4
10°	814.9	819.5	829.8	836.6	838.8
12.5°	802.3	809.2	821.7	830.9	833.1
15°	786.4	795.5	810.2	821.7	825.2
17.5°	768.1	779.4	797.8	811.5	816.1
20°	748.5	760.0	782.9	798.8	804.5
22.5°	725.7	740.6	766.9	785.3	789.8
25°	701.8	718.9	747.5	768.1	774.9
27.5°	675.4	696.1	726.9	752.1	757.8
30°	648.0	669.7	705.2	732.6	739.5
32.5°	619.4	644.6	682.3	713.2	722.4
35°	590.8	616.0	657.2	691.6	701.8
37.5°	557.7	587.4	633.2	668.7	681.1
40°	529.2	557.7	607.0	645.8	658.3
42.5°	497.1	528.0	579.5	621.7	636.6
45°	465.2	498.3	553.1	597.8	612.7
47.5°	435.4	468.5	525.7	572.7	587.4
50°	404.6	438.9	498.3	546.3	561.2
52.5°	371.5	409.1	470.8	518.8	536.1
55°	341.7	379.4	441.1	491.4	508.6
57.5°	310.8	349.7	413.8	461.8	477.8
60°	282.3	320.0	383.0	429.7	448.1
62.5°	251.4	290.2	351.9	397.7	414.9
65°	222.8	260.6	321.1	365.8	381.7
67.5°	194.2	232.1	289.1	331.5	349.7
70°	165.6	203.5	255.9	297.2	313.1
72.5°	140.6	173.8	224.0	261.8	276.6
75°	113.2	146.3	188.5	221.6	228.5
77.5°	88.0	117.7	153.2	167.9	170.4
80°	65.1	88.0	112.1	115.4	115.4
82.5°	43.3	60.6	69.7	70.8	69.7
85°	26.3	32.0	33.1	28.6	26.3
87.5°	9.1	9.1	5.7	3.4	1.2
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)