

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: P880647

Luminaire Tested: **22CZ2-24VHE-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: P880647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474795)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24VHE-B2750-W2D-2700K
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

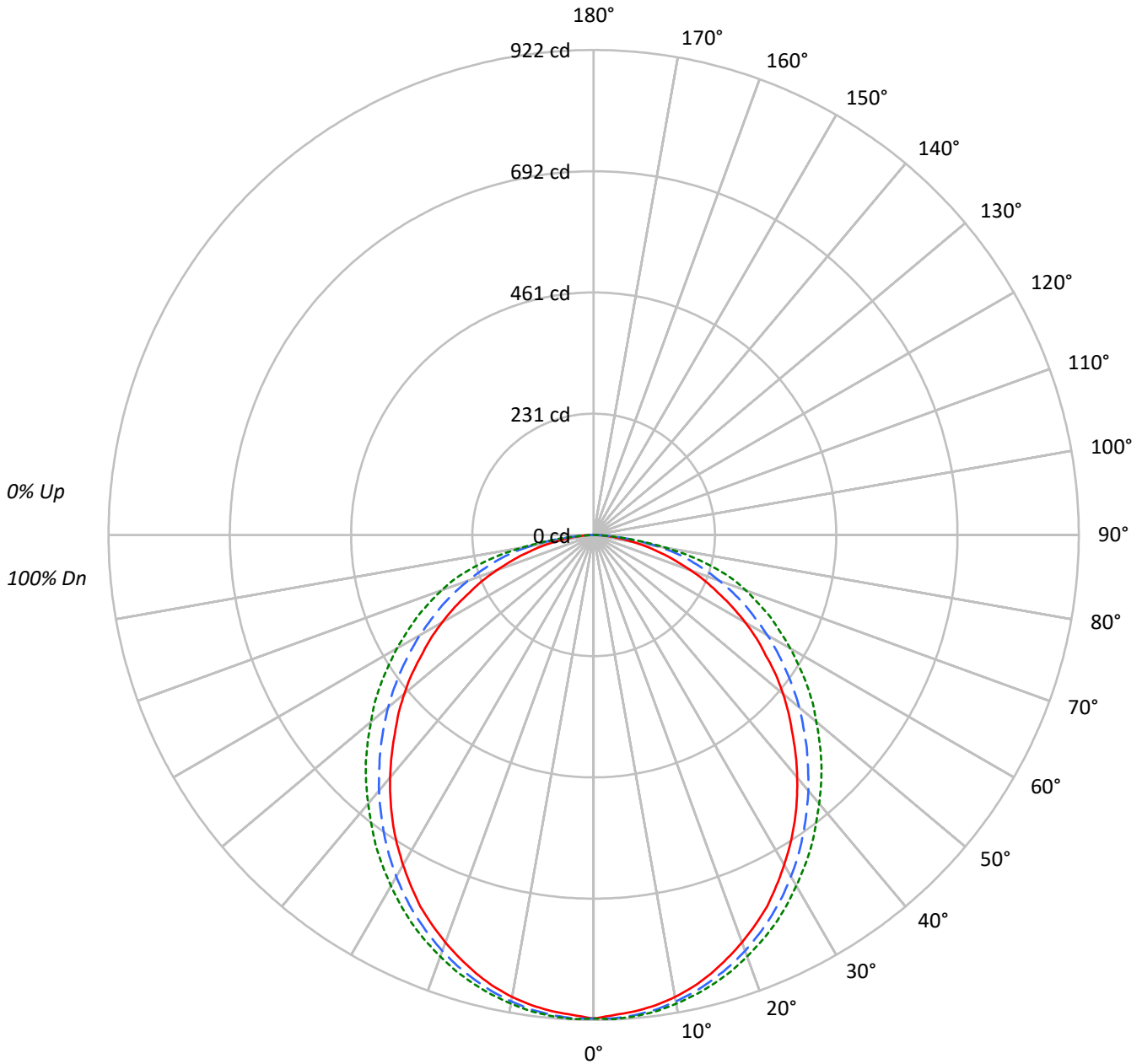
Lumens per Lamp: N/A
Luminaire Lumens: 2535.0 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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				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	77	85	79	75	81	77	73	78	75	71	69				69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58				58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50				50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43				43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38				38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30				30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27				27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2609	2609	2609
5°	2589	2609	2616
10°	2570	2595	2607
15°	2535	2572	2595
20°	2490	2541	2575
25°	2441	2503	2555
30°	2373	2457	2524
35°	2307	2405	2500
40°	2229	2352	2469
45°	2143	2298	2457
50°	2074	2251	2439
55°	1977	2202	2443
60°	1888	2164	2450
65°	1755	2136	2490
70°	1623	2106	2551
75°	1452	2097	2568
80°	1216	1987	2240
85°	944	1361	1273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	3.4
10°-20°	246.6	9.7
20°-30°	367.6	14.5
30°-40°	434.0	17.1
40°-50°	442.3	17.4
50°-60°	398.9	15.7
60°-70°	313.5	12.4
70°-80°	196.3	7.7
80°-90°	48.9	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°	701.0	27.7
0°-40°	1135.0	44.8
0°-60°	1976.2	78.0
0°-90°	2535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	909	911	916	918	918	86
15°	863	867	875	882	883	243
25°	780	785	799	812	816	358
35°	666	674	694	714	722	416
45°	534	546	573	601	612	413
55°	400	412	445	479	494	359
65°	261	278	318	354	371	261
75°	132	152	191	226	234	141
85°	29	37	42	42	39	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	919.4	919.4	919.4	919.4	919.4
2.5°	913.4	915.6	919.9	921.5	921.5
5°	909.1	911.3	916.1	918.3	918.3
7.5°	902.1	904.3	910.3	912.9	913.4
10°	892.0	894.7	900.5	904.9	904.9
12.5°	879.2	881.8	889.3	894.7	895.2
15°	863.1	866.8	875.4	881.8	883.4
17.5°	844.3	850.2	859.8	867.9	869.6
20°	824.5	830.3	841.6	850.7	852.9
22.5°	802.5	807.9	821.2	832.6	835.2
25°	779.5	785.4	799.4	811.6	816.0
27.5°	752.2	759.2	775.8	789.6	794.0
30°	724.3	732.9	750.0	765.5	770.4
32.5°	696.0	704.0	723.2	739.8	746.3
35°	665.9	674.5	694.3	713.6	721.7
37.5°	634.3	642.9	664.4	686.2	693.7
40°	601.7	611.8	634.9	658.4	666.5
42.5°	568.5	579.1	603.2	629.5	640.1
45°	534.1	545.9	572.7	600.6	612.3
47.5°	503.0	512.6	540.6	571.1	582.3
50°	469.8	478.9	510.0	540.6	552.4
52.5°	436.1	444.7	477.9	510.0	524.5
55°	399.6	412.0	445.2	479.4	493.9
57.5°	367.5	378.8	413.1	447.8	461.8
60°	332.7	344.4	381.4	416.9	431.8
62.5°	297.8	310.7	348.2	386.3	400.2
65°	261.4	277.5	318.2	353.5	370.8
67.5°	230.4	245.9	286.1	323.1	338.1
70°	195.6	213.8	253.9	291.5	307.5
72.5°	162.8	181.1	222.3	259.9	275.9
75°	132.4	152.1	191.3	225.5	234.2
77.5°	102.9	121.6	160.7	180.6	189.7
80°	74.4	92.7	121.6	135.0	137.1
82.5°	50.3	65.9	82.5	86.3	84.2
85°	29.0	37.0	41.8	41.8	39.1
87.5°	11.7	11.7	10.2	6.4	3.7
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)