

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: P260390

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1796.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

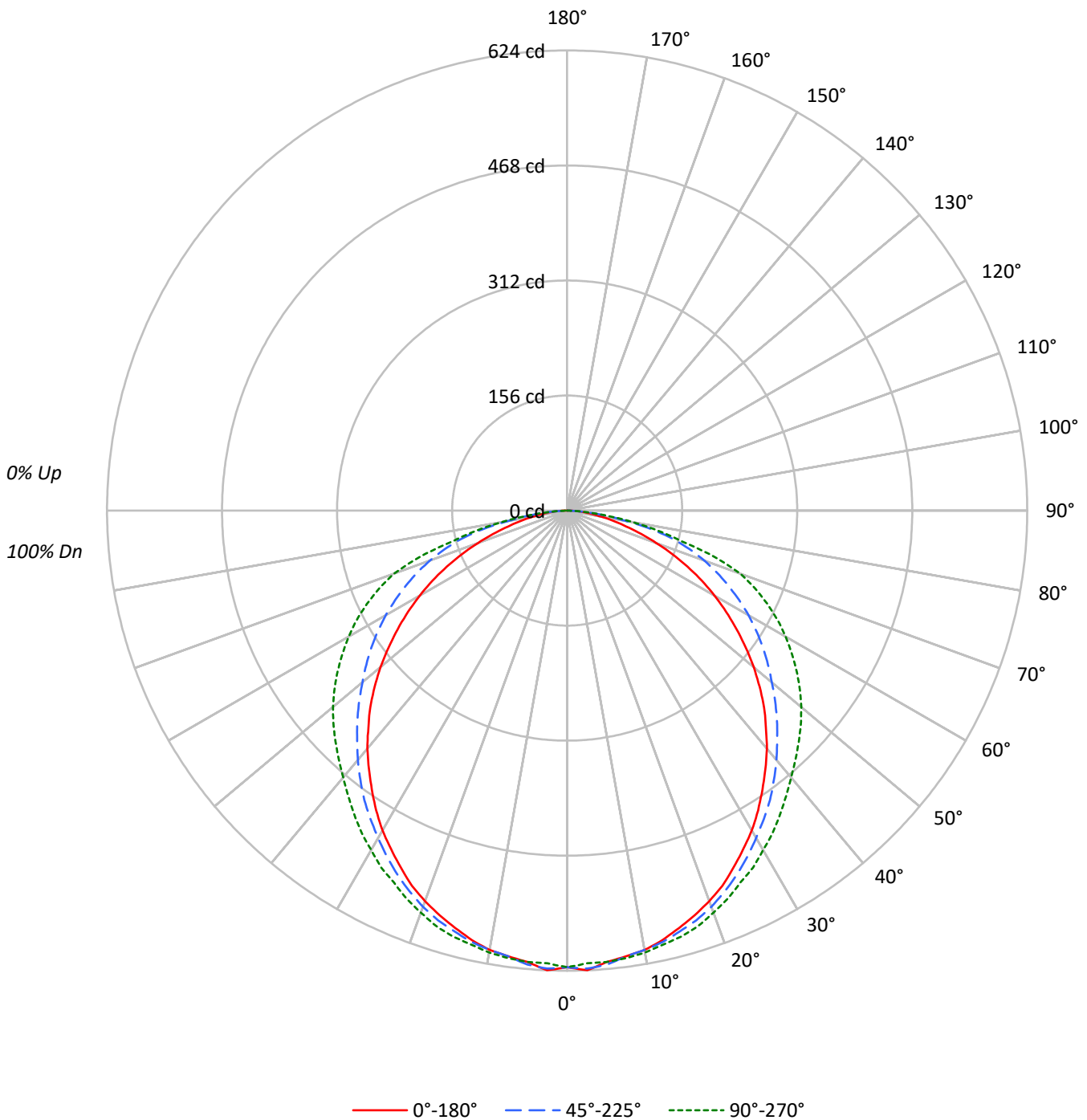
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260390

CATALOG NUMBER: 22CZ-LD5-24-RDP-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P260390

CATALOG NUMBER: 22CZ-LD5-24-RDP-UNV-L83050-W2A1-U-3500K

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	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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1666	1666	1666
5°	1660	1669	1660
10°	1653	1653	1663
15°	1633	1646	1666
20°	1614	1637	1661
25°	1586	1617	1652
30°	1556	1593	1652
35°	1517	1575	1653
40°	1481	1551	1659
45°	1437	1532	1690
50°	1383	1517	1735
55°	1316	1522	1783
60°	1243	1529	1842
65°	1146	1538	1907
70°	1015	1555	1965
75°	862	1551	1674
80°	716	1247	1395
85°	621	840	803



TEST NUMBER: P260390

CATALOG NUMBER: 22CZ-LD5-24-RDP-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	3.3
10°-20°	166.9	9.3
20°-30°	251.0	14.0
30°-40°	300.9	16.8
40°-50°	313.7	17.5
50°-60°	292.1	16.3
60°-70°	237.2	13.2
70°-80°	142.9	8.0
80°-90°	32.8	1.8
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°	476.4	26.5
0°-40°	777.3	43.3
0°-60°	1383.1	77.0
0°-90°	1796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	619	619	619	619	619	
5°	614	614	618	619	614	58
15°	586	588	591	594	598	165
25°	534	538	545	552	556	246
35°	462	468	480	494	503	289
45°	378	385	402	429	444	291
55°	281	292	324	360	380	251
65°	180	199	242	279	300	178
75°	83	110	149	159	161	90
85°	20	25	27	26	26	23
90°	0	0	0	0	0	



TEST NUMBER: P260390

CATALOG NUMBER: 22CZ-LD5-24-RDP-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	619.2	619.2	619.2	619.2	619.2
2.5°	623.9	622.7	621.6	618.0	614.5
5°	614.5	614.5	618.0	619.2	614.5
7.5°	609.7	609.7	609.7	614.5	612.1
10°	605.0	605.0	605.0	608.5	608.5
12.5°	596.7	597.9	599.1	600.3	602.6
15°	586.0	588.4	590.8	594.3	597.9
17.5°	575.4	577.8	582.5	586.0	590.8
20°	563.5	565.9	571.8	575.4	580.1
22.5°	550.5	551.7	558.8	563.5	569.5
25°	534.0	537.5	544.6	551.7	556.4
27.5°	517.4	520.9	529.2	538.7	545.8
30°	500.8	504.4	512.6	524.5	531.6
32.5°	481.9	486.6	496.1	510.3	518.6
35°	461.7	467.7	479.5	493.7	503.2
37.5°	441.6	447.5	460.5	478.3	487.8
40°	421.5	427.4	441.6	460.5	472.4
42.5°	399.0	406.1	421.5	444.0	458.2
45°	377.7	384.8	402.5	428.6	444.0
47.5°	354.0	362.3	382.4	412.0	429.8
50°	330.3	339.8	362.3	395.4	414.4
52.5°	305.5	316.1	343.3	377.7	397.8
55°	280.6	292.4	324.4	359.9	380.0
57.5°	255.7	268.8	304.3	341.0	361.1
60°	230.9	245.1	284.1	322.0	342.2
62.5°	206.0	221.4	262.8	300.7	322.0
65°	180.0	198.9	241.5	279.4	299.5
67.5°	153.9	176.4	220.2	256.9	275.9
70°	129.0	153.9	197.7	232.0	249.8
72.5°	105.4	131.4	174.0	203.6	210.7
75°	82.9	110.1	149.2	158.6	161.0
77.5°	63.9	88.8	118.4	120.8	126.7
80°	46.2	67.5	80.5	87.6	90.0
82.5°	32.0	46.2	53.3	54.5	55.6
85°	20.1	24.9	27.2	26.0	26.0
87.5°	10.7	9.5	8.3	5.9	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)