

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: P260457

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260457
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-L82765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1825.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

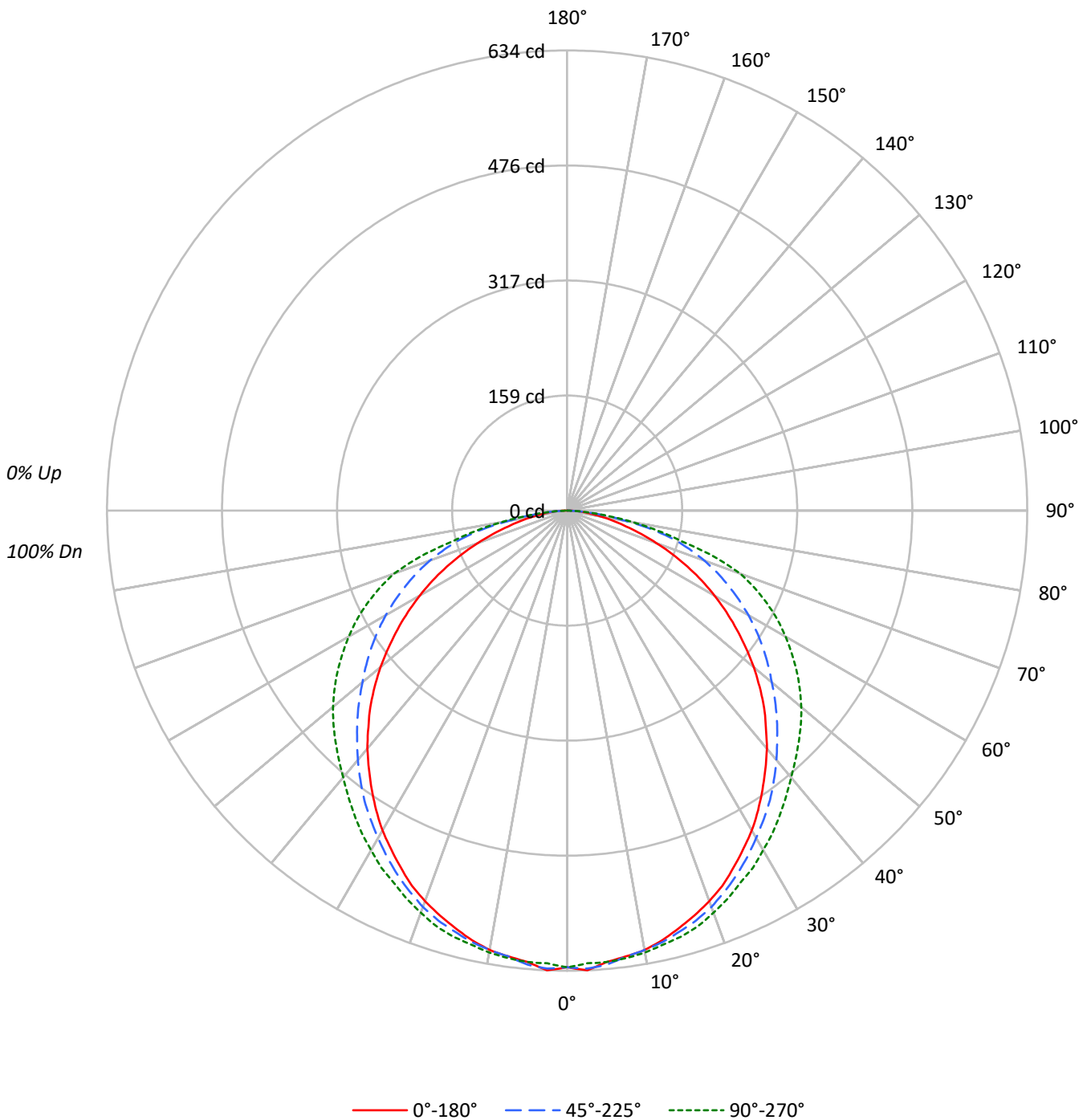
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1693	1693	1693
5°	1687	1696	1687
10°	1680	1680	1690
15°	1659	1672	1692
20°	1640	1664	1688
25°	1611	1643	1679
30°	1581	1619	1679
35°	1541	1600	1680
40°	1505	1576	1686
45°	1461	1556	1717
50°	1405	1541	1763
55°	1338	1546	1812
60°	1263	1554	1871
65°	1165	1563	1938
70°	1031	1581	1997
75°	875	1576	1701
80°	727	1268	1416
85°	633	855	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	3.3
10°-20°	169.6	9.3
20°-30°	255.1	14.0
30°-40°	305.7	16.8
40°-50°	318.8	17.5
50°-60°	296.8	16.3
60°-70°	241.0	13.2
70°-80°	145.2	8.0
80°-90°	33.3	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°	484.1	26.5
0°-40°	789.8	43.3
0°-60°	1405.4	77.0
0°-90°	1825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	629	629	629	629	629	
5°	624	624	628	629	624	59
15°	596	598	600	604	608	168
25°	543	546	553	561	565	250
35°	469	475	487	502	511	294
45°	384	391	409	436	451	295
55°	285	297	330	366	386	255
65°	183	202	245	284	304	181
75°	84	112	152	161	164	91
85°	20	25	28	26	26	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	629.2	629.2	629.2	629.2	629.2
2.5°	634.0	632.8	631.6	628.0	624.4
5°	624.4	624.4	628.0	629.2	624.4
7.5°	619.6	619.6	619.6	624.4	622.0
10°	614.8	614.8	614.8	618.4	618.4
12.5°	606.3	607.5	608.7	609.9	612.3
15°	595.5	597.9	600.3	603.9	607.5
17.5°	584.7	587.1	591.9	595.5	600.3
20°	572.6	575.1	581.1	584.7	589.5
22.5°	559.4	560.6	567.8	572.6	578.7
25°	542.6	546.2	553.4	560.6	565.4
27.5°	525.7	529.3	537.8	547.4	554.6
30°	508.9	512.5	520.9	532.9	540.2
32.5°	489.6	494.5	504.1	518.5	526.9
35°	469.2	475.2	487.2	501.7	511.3
37.5°	448.7	454.8	468.0	486.0	495.7
40°	428.3	434.3	448.7	468.0	480.0
42.5°	405.4	412.6	428.3	451.1	465.6
45°	383.8	391.0	409.0	435.5	451.1
47.5°	359.7	368.1	388.6	418.7	436.7
50°	335.6	345.3	368.1	401.8	421.1
52.5°	310.4	321.2	348.9	383.8	404.2
55°	285.1	297.2	329.6	365.7	386.2
57.5°	259.9	273.1	309.2	346.5	366.9
60°	234.6	249.0	288.7	327.2	347.7
62.5°	209.3	225.0	267.1	305.6	327.2
65°	182.9	202.1	245.4	283.9	304.4
67.5°	156.4	179.3	223.8	261.1	280.3
70°	131.1	156.4	200.9	235.8	253.8
72.5°	107.1	133.5	176.8	206.9	214.1
75°	84.2	111.9	151.6	161.2	163.6
77.5°	65.0	90.2	120.3	122.7	128.7
80°	46.9	68.6	81.8	89.0	91.4
82.5°	32.5	46.9	54.1	55.3	56.5
85°	20.5	25.3	27.7	26.5	26.5
87.5°	10.8	9.6	8.4	6.0	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)