

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: P260454

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260454
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-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1696.0 lumens
Efficiency: N/A
Efficacy: 97.0 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

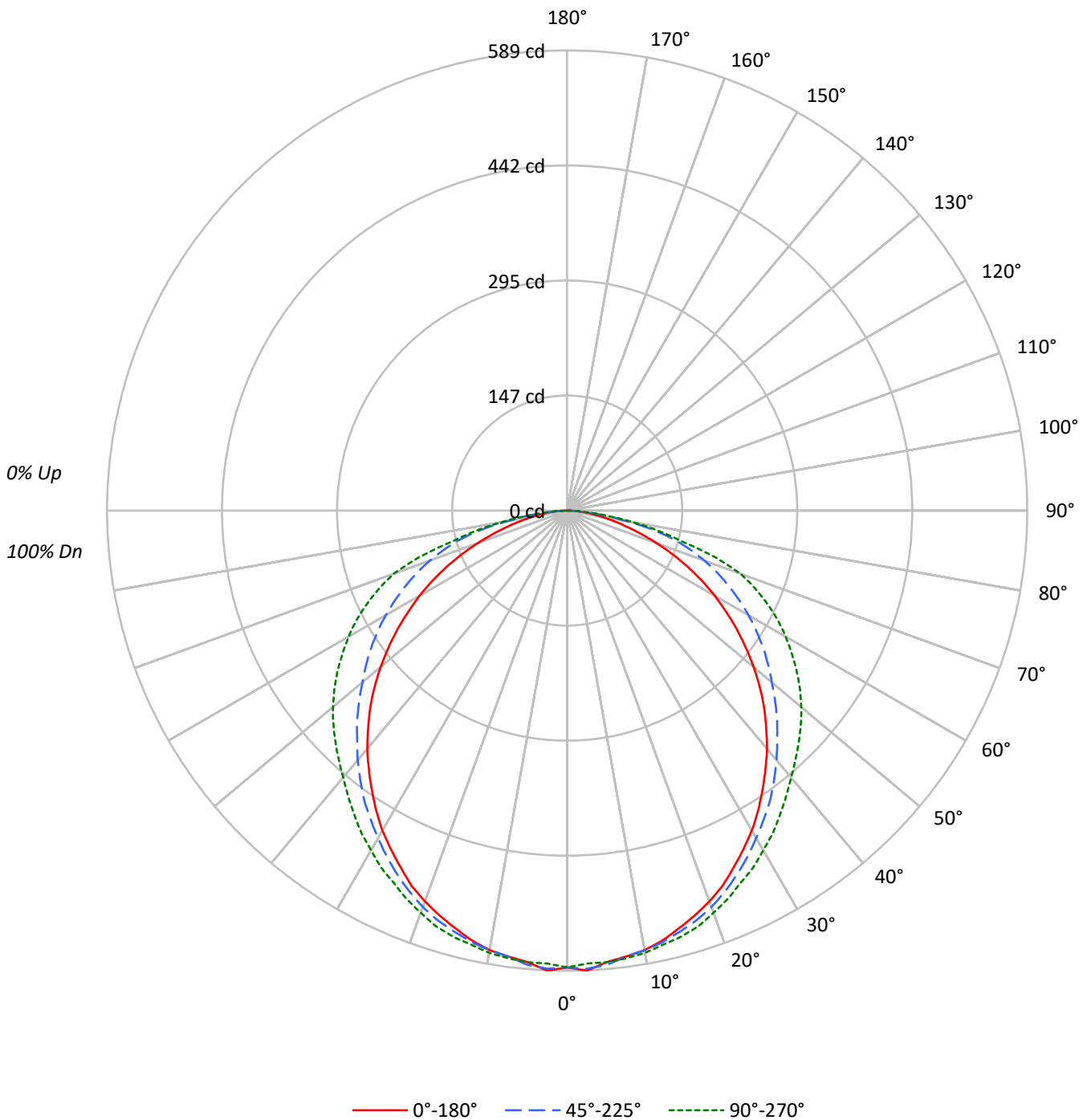
Input Watts (W): 17.484
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1573	1573	1573
5°	1567	1576	1567
10°	1561	1561	1570
15°	1542	1554	1573
20°	1524	1546	1569
25°	1497	1527	1560
30°	1469	1504	1560
35°	1432	1487	1561
40°	1398	1465	1567
45°	1357	1447	1596
50°	1306	1432	1638
55°	1243	1437	1684
60°	1173	1444	1739
65°	1082	1452	1801
70°	959	1469	1856
75°	814	1465	1580
80°	676	1178	1317
85°	587	794	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	3.3
10°-20°	157.6	9.3
20°-30°	237.1	14.0
30°-40°	284.1	16.8
40°-50°	296.3	17.5
50°-60°	275.8	16.3
60°-70°	224.0	13.2
70°-80°	135.0	8.0
80°-90°	30.9	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°	449.9	26.5
0°-40°	734.0	43.3
0°-60°	1306.1	77.0
0°-90°	1696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	585	585	585	585	585	
5°	580	580	584	585	580	55
15°	553	556	558	561	565	156
25°	504	508	514	521	526	232
35°	436	442	453	466	475	273
45°	357	363	380	405	419	275
55°	265	276	306	340	359	237
65°	170	188	228	264	283	168
75°	78	104	141	150	152	85
85°	19	24	26	25	25	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	584.7	584.7	584.7	584.7	584.7
2.5°	589.2	588.1	587.0	583.6	580.2
5°	580.2	580.2	583.6	584.7	580.2
7.5°	575.8	575.8	575.8	580.2	578.0
10°	571.3	571.3	571.3	574.7	574.7
12.5°	563.5	564.6	565.7	566.8	569.1
15°	553.4	555.6	557.9	561.2	564.6
17.5°	543.4	545.6	550.1	553.4	557.9
20°	532.2	534.4	540.0	543.4	547.8
22.5°	519.9	521.0	527.7	532.2	537.8
25°	504.2	507.6	514.3	521.0	525.5
27.5°	488.6	491.9	499.7	508.7	515.4
30°	472.9	476.3	484.1	495.3	502.0
32.5°	455.0	459.5	468.4	481.9	489.7
35°	436.0	441.6	452.8	466.2	475.2
37.5°	417.0	422.6	434.9	451.7	460.6
40°	398.0	403.6	417.0	434.9	446.1
42.5°	376.8	383.5	398.0	419.3	432.7
45°	356.6	363.4	380.1	404.7	419.3
47.5°	334.3	342.1	361.1	389.1	405.8
50°	311.9	320.9	342.1	373.4	391.3
52.5°	288.4	298.5	324.2	356.6	375.6
55°	265.0	276.1	306.3	339.9	358.9
57.5°	241.5	253.8	287.3	322.0	341.0
60°	218.0	231.4	268.3	304.1	323.1
62.5°	194.5	209.1	248.2	284.0	304.1
65°	169.9	187.8	228.1	263.8	282.9
67.5°	145.3	166.6	207.9	242.6	260.5
70°	121.9	145.3	186.7	219.1	235.9
72.5°	99.5	124.1	164.3	192.3	199.0
75°	78.3	104.0	140.9	149.8	152.0
77.5°	60.4	83.9	111.8	114.0	119.6
80°	43.6	63.7	76.0	82.7	85.0
82.5°	30.2	43.6	50.3	51.4	52.5
85°	19.0	23.5	25.7	24.6	24.6
87.5°	10.1	8.9	7.8	5.6	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)