

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: P260449

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260449  
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-LD5-20-RDP-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1639.0 lumens  
Efficiency: N/A  
Efficacy: 103.1 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

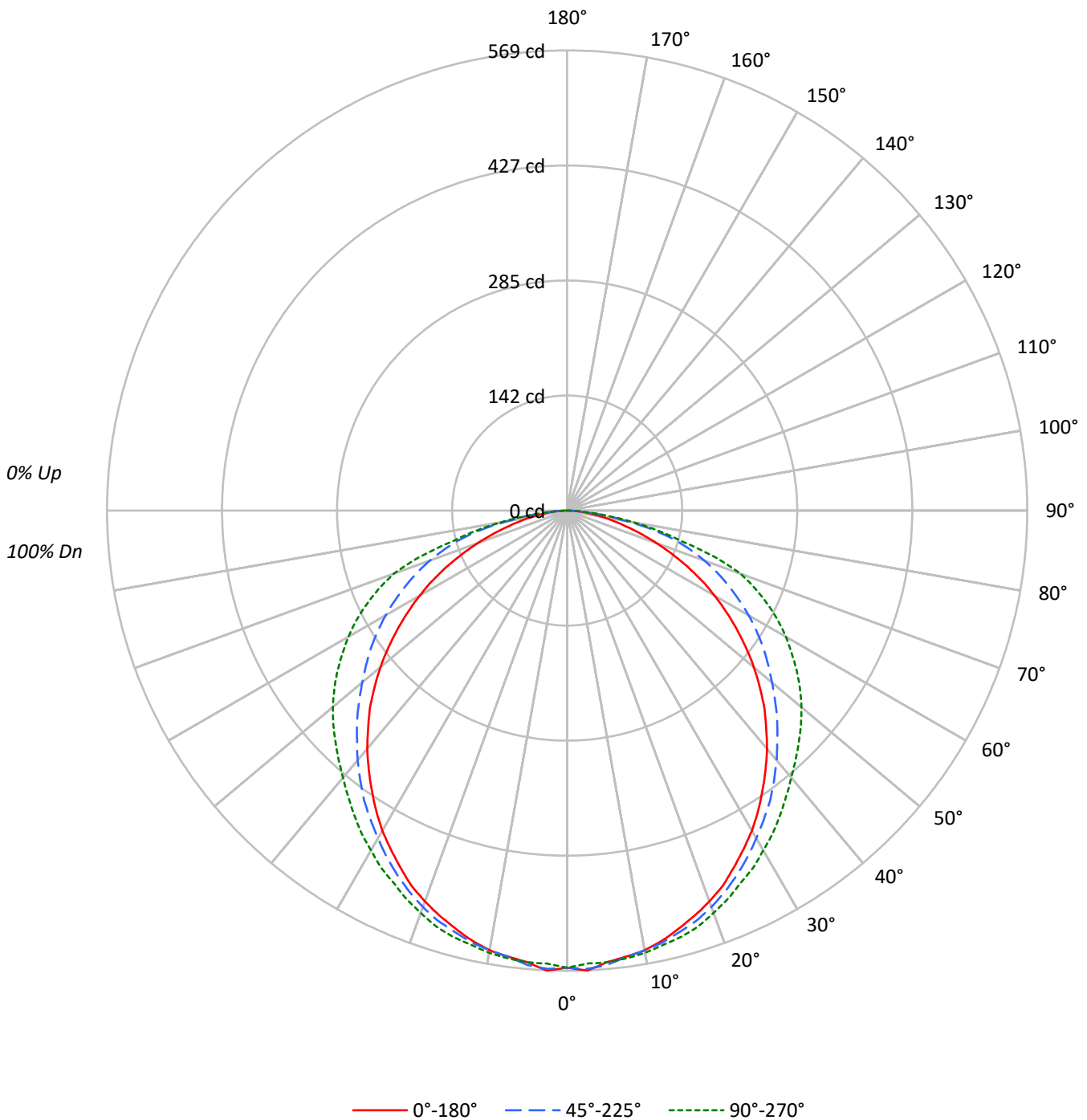
Input Watts (W): 15.903  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1521	1521	1521
5°	1515	1524	1515
10°	1509	1509	1517
15°	1490	1502	1520
20°	1473	1494	1516
25°	1447	1476	1508
30°	1420	1454	1507
35°	1384	1438	1509
40°	1351	1416	1514
45°	1312	1398	1542
50°	1262	1384	1583
55°	1202	1389	1627
60°	1134	1396	1680
65°	1046	1403	1740
70°	927	1419	1794
75°	786	1415	1527
80°	652	1139	1272
85°	568	766	735



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.4	3.3
10°-20°	152.3	9.3
20°-30°	229.1	14.0
30°-40°	274.6	16.8
40°-50°	286.3	17.5
50°-60°	266.6	16.3
60°-70°	216.5	13.2
70°-80°	130.4	8.0
80°-90°	29.9	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°	434.8	26.5
0°-40°	709.3	43.3
0°-60°	1262.2	77.0
0°-90°	1639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1639.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	565	565	565	565	565	
5°	561	561	564	565	561	53
15°	535	537	539	542	546	151
25°	487	490	497	504	508	225
35°	421	427	438	450	459	264
45°	345	351	367	391	405	265
55°	256	267	296	328	347	229
65°	164	182	220	255	273	162
75°	76	100	136	145	147	82
85°	18	23	25	24	24	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	565.1	565.1	565.1	565.1	565.1
2.5°	569.4	568.3	567.2	564.0	560.7
5°	560.7	560.7	564.0	565.1	560.7
7.5°	556.4	556.4	556.4	560.7	558.6
10°	552.1	552.1	552.1	555.3	555.3
12.5°	544.5	545.6	546.7	547.8	549.9
15°	534.8	537.0	539.1	542.4	545.6
17.5°	525.1	527.3	531.6	534.8	539.1
20°	514.3	516.4	521.8	525.1	529.4
22.5°	502.4	503.5	510.0	514.3	519.7
25°	487.3	490.5	497.0	503.5	507.8
27.5°	472.1	475.4	483.0	491.6	498.1
30°	457.0	460.3	467.8	478.6	485.1
32.5°	439.7	444.1	452.7	465.7	473.2
35°	421.4	426.8	437.6	450.5	459.2
37.5°	403.0	408.4	420.3	436.5	445.1
40°	384.6	390.0	403.0	420.3	431.1
42.5°	364.1	370.6	384.6	405.2	418.1
45°	344.7	351.1	367.3	391.1	405.2
47.5°	323.0	330.6	349.0	376.0	392.2
50°	301.4	310.1	330.6	360.9	378.2
52.5°	278.8	288.5	313.3	344.7	363.0
55°	256.1	266.9	296.0	328.5	346.8
57.5°	233.4	245.3	277.7	311.2	329.5
60°	210.7	223.6	259.3	293.9	312.2
62.5°	188.0	202.0	239.9	274.4	293.9
65°	164.2	181.5	220.4	255.0	273.3
67.5°	140.5	161.0	201.0	234.5	251.7
70°	117.8	140.5	180.4	211.8	228.0
72.5°	96.2	119.9	158.8	185.8	192.3
75°	75.6	100.5	136.1	144.8	146.9
77.5°	58.3	81.0	108.0	110.2	115.6
80°	42.1	61.6	73.5	80.0	82.1
82.5°	29.2	42.1	48.6	49.7	50.8
85°	18.4	22.7	24.8	23.8	23.8
87.5°	9.7	8.6	7.6	5.4	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)