

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: P260452

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260452
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-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1664.0 lumens
Efficiency: N/A
Efficacy: 102.8 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

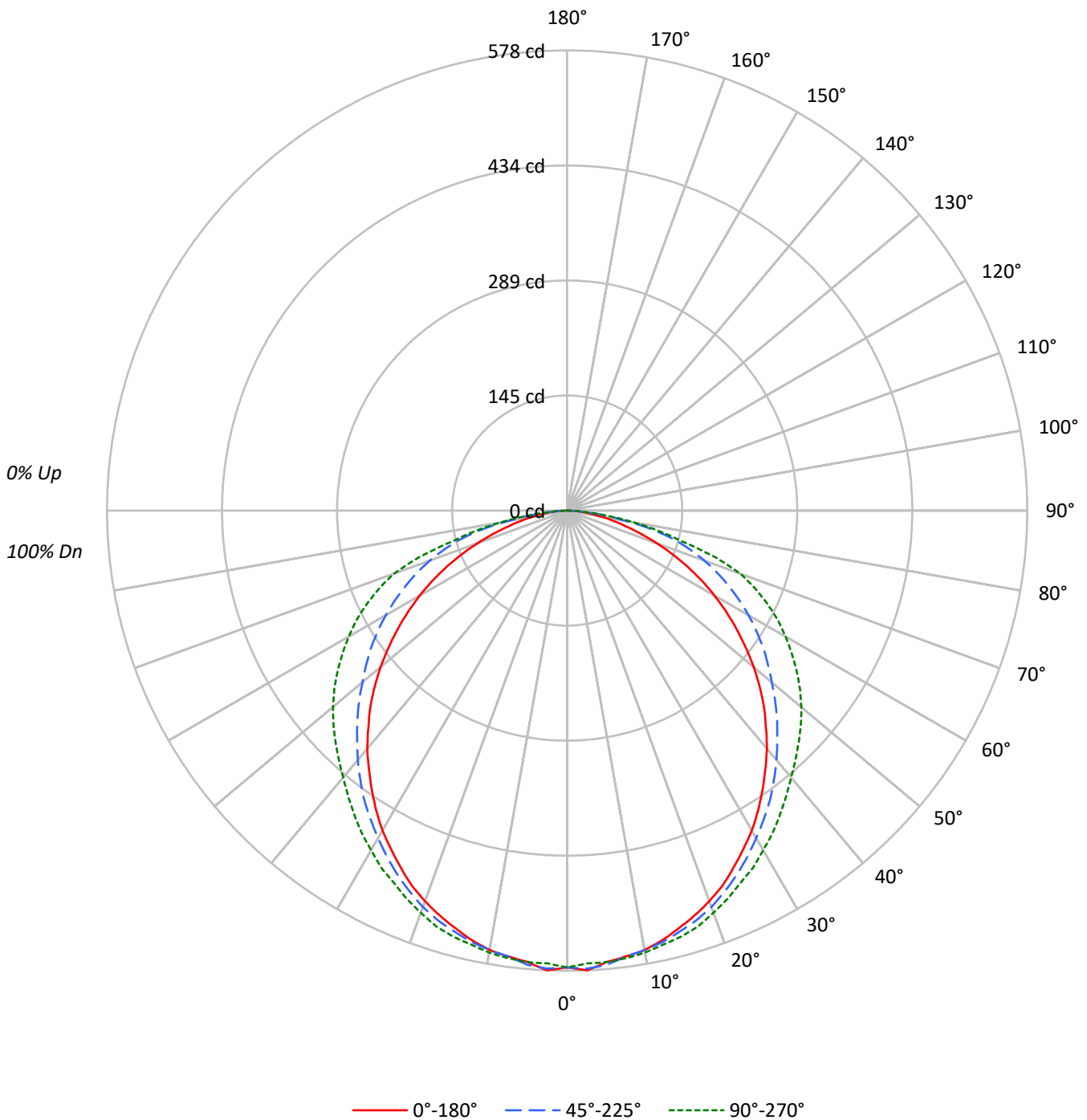
Input Watts (W): 16.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1544	1544	1544
5°	1538	1547	1538
10°	1532	1532	1541
15°	1513	1525	1543
20°	1495	1517	1539
25°	1469	1498	1531
30°	1442	1476	1530
35°	1405	1459	1532
40°	1372	1437	1538
45°	1332	1419	1565
50°	1281	1405	1607
55°	1220	1410	1652
60°	1151	1417	1706
65°	1061	1425	1767
70°	941	1441	1821
75°	799	1437	1551
80°	663	1156	1292
85°	574	778	744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	3.3
10°-20°	154.6	9.3
20°-30°	232.6	14.0
30°-40°	278.7	16.8
40°-50°	290.7	17.5
50°-60°	270.6	16.3
60°-70°	219.8	13.2
70°-80°	132.4	8.0
80°-90°	30.4	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°	441.4	26.5
0°-40°	720.1	43.3
0°-60°	1281.5	77.0
0°-90°	1664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	569	569	573	574	569	54
15°	543	545	547	551	554	153
25°	495	498	505	511	516	228
35°	428	433	444	457	466	268
45°	350	356	373	397	411	269
55°	260	271	301	334	352	232
65°	167	184	224	259	278	165
75°	77	102	138	147	149	83
85°	19	23	25	24	24	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	573.7	573.7	573.7	573.7	573.7
2.5°	578.1	577.0	575.9	572.6	569.3
5°	569.3	569.3	572.6	573.7	569.3
7.5°	564.9	564.9	564.9	569.3	567.1
10°	560.5	560.5	560.5	563.8	563.8
12.5°	552.8	553.9	555.0	556.1	558.3
15°	543.0	545.2	547.4	550.6	553.9
17.5°	533.1	535.3	539.7	543.0	547.4
20°	522.1	524.3	529.8	533.1	537.5
22.5°	510.1	511.2	517.7	522.1	527.6
25°	494.7	498.0	504.6	511.2	515.5
27.5°	479.4	482.6	490.3	499.1	505.7
30°	464.0	467.3	475.0	485.9	492.5
32.5°	446.4	450.8	459.6	472.8	480.4
35°	427.8	433.3	444.2	457.4	466.2
37.5°	409.1	414.6	426.7	443.2	451.9
40°	390.5	396.0	409.1	426.7	437.7
42.5°	369.7	376.2	390.5	411.3	424.5
45°	349.9	356.5	372.9	397.1	411.3
47.5°	328.0	335.7	354.3	381.7	398.2
50°	306.0	314.8	335.7	366.4	383.9
52.5°	283.0	292.9	318.1	349.9	368.6
55°	260.0	270.9	300.6	333.5	352.1
57.5°	236.9	249.0	281.9	315.9	334.6
60°	213.9	227.1	263.3	298.4	317.0
62.5°	190.9	205.1	243.5	278.6	298.4
65°	166.7	184.3	223.8	258.9	277.5
67.5°	142.6	163.4	204.0	238.0	255.6
70°	119.6	142.6	183.2	215.0	231.4
72.5°	97.6	121.8	161.2	188.7	195.3
75°	76.8	102.0	138.2	147.0	149.2
77.5°	59.2	82.3	109.7	111.9	117.4
80°	42.8	62.5	74.6	81.2	83.4
82.5°	29.6	42.8	49.4	50.5	51.6
85°	18.6	23.0	25.2	24.1	24.1
87.5°	9.9	8.8	7.7	5.5	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)