

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: P260503

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260503
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-L92765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1472.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

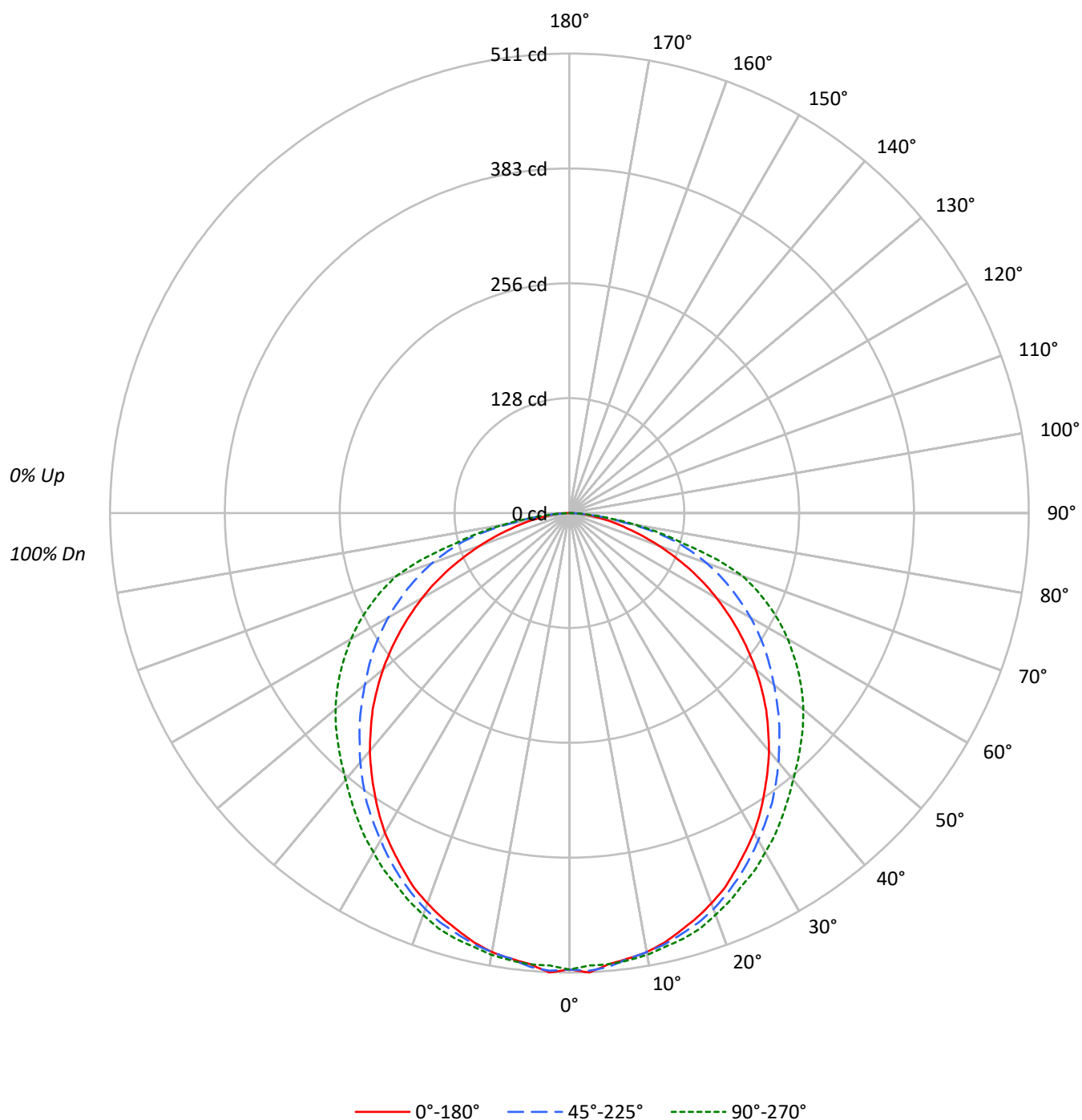
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1366	1366	1366
5°	1360	1368	1360
10°	1355	1355	1363
15°	1338	1349	1365
20°	1323	1342	1362
25°	1299	1325	1354
30°	1276	1306	1354
35°	1243	1291	1355
40°	1213	1271	1360
45°	1178	1255	1385
50°	1133	1243	1422
55°	1079	1247	1461
60°	1018	1253	1509
65°	939	1261	1563
70°	832	1275	1611
75°	706	1272	1372
80°	586	1023	1142
85°	509	689	658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	3.3
10°-20°	136.8	9.3
20°-30°	205.8	14.0
30°-40°	246.6	16.8
40°-50°	257.1	17.5
50°-60°	239.4	16.3
60°-70°	194.4	13.2
70°-80°	117.1	8.0
80°-90°	26.9	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°	390.5	26.5
0°-40°	637.1	43.3
0°-60°	1133.6	77.0
0°-90°	1472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	508	508	508	508	508	
5°	504	504	506	508	504	48
15°	480	482	484	487	490	136
25°	438	440	446	452	456	202
35°	378	383	393	405	412	237
45°	310	315	330	351	364	238
55°	230	240	266	295	312	206
65°	148	163	198	229	246	146
75°	68	90	122	130	132	73
85°	16	20	22	21	21	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	507.5	507.5	507.5	507.5	507.5
2.5°	511.4	510.4	509.4	506.5	503.6
5°	503.6	503.6	506.5	507.5	503.6
7.5°	499.7	499.7	499.7	503.6	501.7
10°	495.8	495.8	495.8	498.8	498.8
12.5°	489.1	490.0	491.0	492.0	493.9
15°	480.3	482.3	484.2	487.1	490.0
17.5°	471.6	473.5	477.4	480.3	484.2
20°	461.9	463.8	468.7	471.6	475.5
22.5°	451.2	452.2	458.0	461.9	466.7
25°	437.6	440.5	446.4	452.2	456.1
27.5°	424.0	427.0	433.7	441.5	447.3
30°	410.5	413.4	420.2	429.9	435.7
32.5°	394.9	398.8	406.6	418.2	425.0
35°	378.4	383.3	393.0	404.6	412.4
37.5°	361.9	366.8	377.5	392.0	399.8
40°	345.4	350.3	361.9	377.5	387.2
42.5°	327.0	332.8	345.4	363.9	375.5
45°	309.5	315.4	329.9	351.3	363.9
47.5°	290.1	296.9	313.4	337.7	352.2
50°	270.7	278.5	296.9	324.1	339.6
52.5°	250.3	259.1	281.4	309.5	326.0
55°	230.0	239.7	265.9	295.0	311.5
57.5°	209.6	220.3	249.4	279.5	296.0
60°	189.2	200.9	232.9	263.9	280.4
62.5°	168.8	181.5	215.4	246.5	263.9
65°	147.5	163.0	198.0	229.0	245.5
67.5°	126.1	144.6	180.5	210.6	226.1
70°	105.8	126.1	162.0	190.2	204.7
72.5°	86.4	107.7	142.6	166.9	172.7
75°	67.9	90.2	122.3	130.0	132.0
77.5°	52.4	72.8	97.0	99.0	103.8
80°	37.8	55.3	66.0	71.8	73.7
82.5°	26.2	37.8	43.7	44.6	45.6
85°	16.5	20.4	22.3	21.3	21.3
87.5°	8.7	7.8	6.8	4.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)