

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: P260504

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260504
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-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1495.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

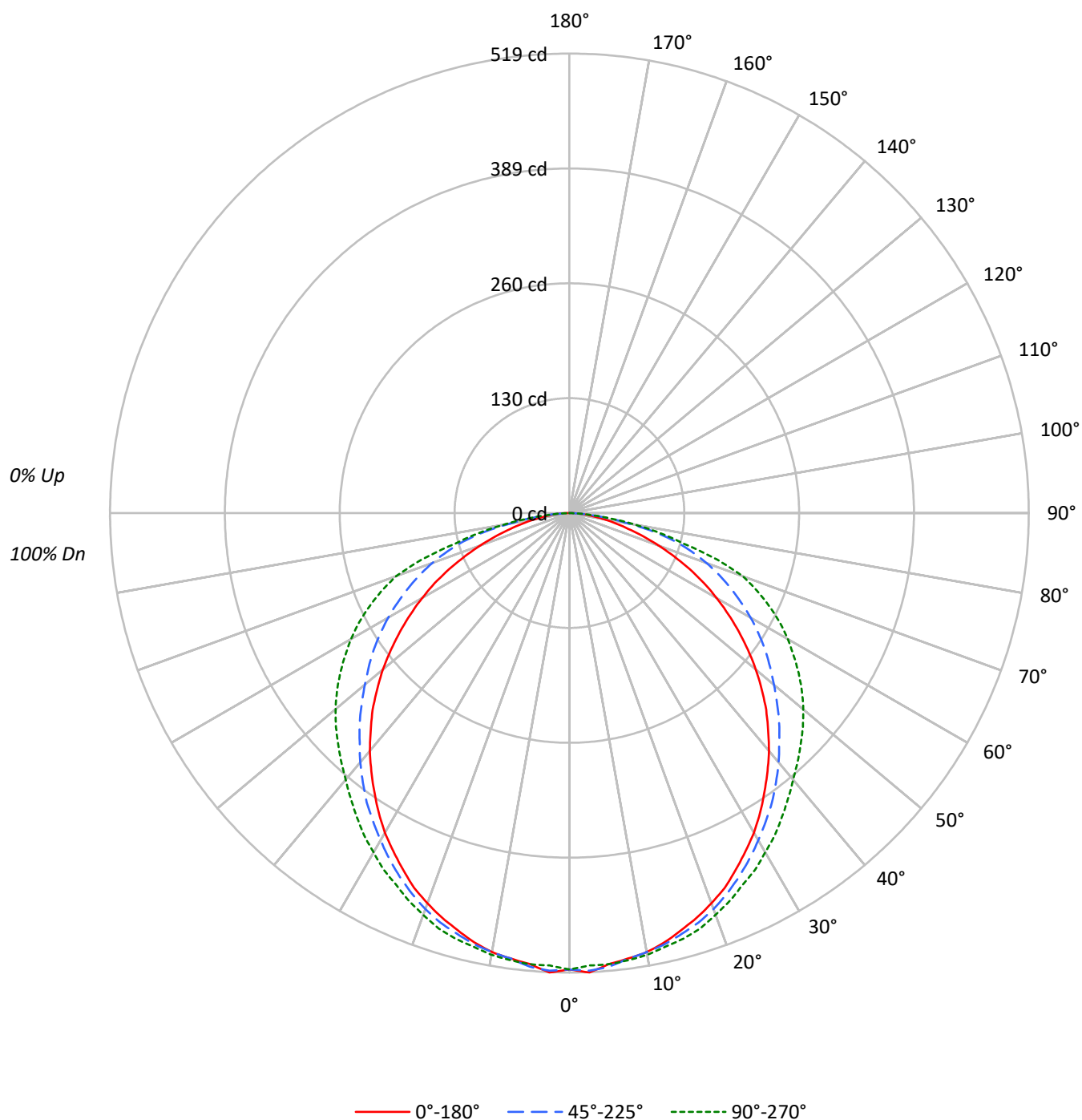
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1387	1387	1387
5°	1382	1390	1382
10°	1376	1376	1384
15°	1359	1370	1387
20°	1343	1363	1383
25°	1320	1346	1375
30°	1295	1326	1375
35°	1262	1311	1376
40°	1232	1291	1381
45°	1196	1275	1407
50°	1151	1263	1444
55°	1096	1267	1484
60°	1034	1273	1533
65°	954	1280	1587
70°	845	1295	1636
75°	717	1291	1393
80°	595	1038	1161
85°	519	701	670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	3.3
10°-20°	138.9	9.3
20°-30°	209.0	14.0
30°-40°	250.4	16.8
40°-50°	261.2	17.5
50°-60°	243.1	16.3
60°-70°	197.4	13.2
70°-80°	119.0	8.0
80°-90°	27.3	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°	396.6	26.5
0°-40°	647.0	43.3
0°-60°	1151.3	77.0
0°-90°	1495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1495.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	515	515	515	515	515	
5°	512	512	514	515	512	49
15°	488	490	492	495	498	138
25°	444	447	453	459	463	205
35°	384	389	399	411	419	241
45°	314	320	335	357	370	242
55°	234	243	270	300	316	209
65°	150	166	201	233	249	148
75°	69	92	124	132	134	75
85°	17	21	23	22	22	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.4	515.4	515.4	515.4	515.4
2.5°	519.4	518.4	517.4	514.4	511.5
5°	511.5	511.5	514.4	515.4	511.5
7.5°	507.5	507.5	507.5	511.5	509.5
10°	503.6	503.6	503.6	506.6	506.6
12.5°	496.7	497.7	498.7	499.7	501.6
15°	487.8	489.8	491.8	494.7	497.7
17.5°	479.0	480.9	484.9	487.8	491.8
20°	469.1	471.1	476.0	479.0	482.9
22.5°	458.3	459.2	465.2	469.1	474.0
25°	444.5	447.4	453.3	459.2	463.2
27.5°	430.7	433.6	440.5	448.4	454.3
30°	416.9	419.8	426.7	436.6	442.5
32.5°	401.1	405.0	412.9	424.8	431.7
35°	384.3	389.3	399.1	411.0	418.8
37.5°	367.6	372.5	383.4	398.1	406.0
40°	350.8	355.8	367.6	383.4	393.2
42.5°	332.1	338.0	350.8	369.6	381.4
45°	314.4	320.3	335.1	356.8	369.6
47.5°	294.7	301.6	318.3	343.0	357.7
50°	275.0	282.8	301.6	329.2	344.9
52.5°	254.3	263.1	285.8	314.4	331.1
55°	233.6	243.4	270.0	299.6	316.3
57.5°	212.9	223.7	253.3	283.8	300.6
60°	192.2	204.0	236.5	268.1	284.8
62.5°	171.5	184.3	218.8	250.3	268.1
65°	149.8	165.6	201.0	232.6	249.3
67.5°	128.1	146.8	183.3	213.9	229.6
70°	107.4	128.1	164.6	193.2	207.9
72.5°	87.7	109.4	144.9	169.5	175.4
75°	69.0	91.7	124.2	132.1	134.0
77.5°	53.2	73.9	98.6	100.5	105.4
80°	38.4	56.2	67.0	72.9	74.9
82.5°	26.6	38.4	44.3	45.3	46.3
85°	16.8	20.7	22.7	21.7	21.7
87.5°	8.9	7.9	6.9	4.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)