

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: P260384

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260384
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-L83050-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: 1504.0 lumens
Efficiency: N/A
Efficacy: 96.8 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

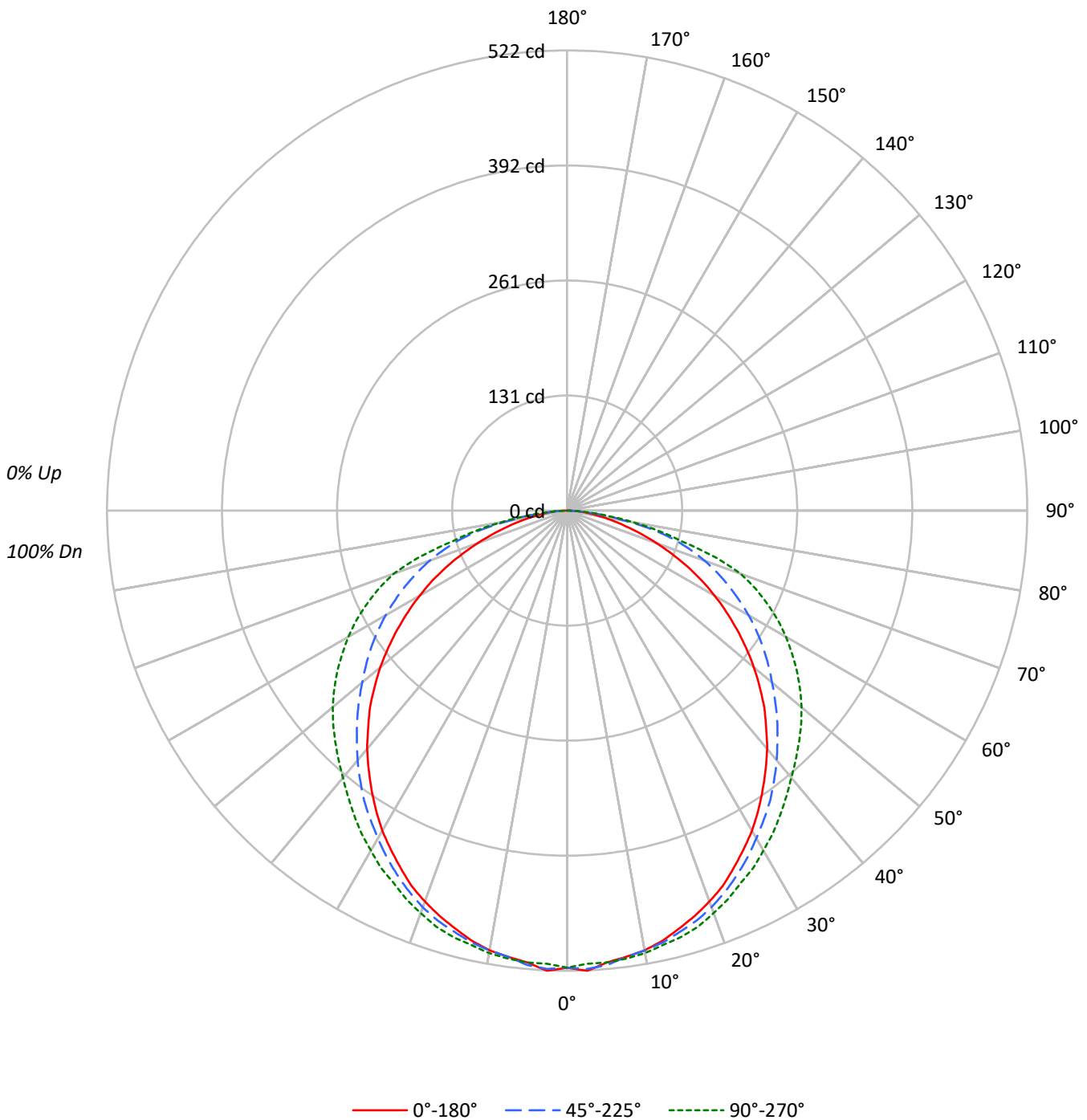
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260384

CATALOG NUMBER: 22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P260384

CATALOG NUMBER: 22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-3000K

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°	1395	1395	1395
5°	1390	1398	1390
10°	1384	1384	1392
15°	1367	1378	1395
20°	1351	1371	1391
25°	1328	1354	1384
30°	1303	1334	1383
35°	1270	1319	1384
40°	1240	1299	1390
45°	1204	1283	1415
50°	1158	1270	1453
55°	1103	1275	1493
60°	1040	1280	1542
65°	960	1288	1597
70°	851	1303	1646
75°	722	1299	1402
80°	600	1044	1167
85°	522	704	673



TEST NUMBER: P260384

CATALOG NUMBER: 22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	3.3
10°-20°	139.7	9.3
20°-30°	210.2	14.0
30°-40°	251.9	16.8
40°-50°	262.7	17.5
50°-60°	244.6	16.3
60°-70°	198.6	13.2
70°-80°	119.7	8.0
80°-90°	27.4	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°	399.0	26.5
0°-40°	650.9	43.3
0°-60°	1158.3	77.0
0°-90°	1504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	518	518	518	518	518	
5°	515	515	518	518	515	49
15°	491	493	495	498	501	139
25°	447	450	456	462	466	206
35°	387	392	402	413	421	242
45°	316	322	337	359	372	243
55°	235	245	272	301	318	210
65°	151	167	202	234	251	149
75°	69	92	125	133	135	75
85°	17	21	23	22	22	20
90°	0	0	0	0	0	



TEST NUMBER: P260384

CATALOG NUMBER: 22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	518.5	518.5	518.5	518.5	518.5
2.5°	522.5	521.5	520.5	517.5	514.6
5°	514.6	514.6	517.5	518.5	514.6
7.5°	510.6	510.6	510.6	514.6	512.6
10°	506.6	506.6	506.6	509.6	509.6
12.5°	499.7	500.7	501.7	502.7	504.6
15°	490.8	492.7	494.7	497.7	500.7
17.5°	481.8	483.8	487.8	490.8	494.7
20°	471.9	473.9	478.9	481.8	485.8
22.5°	461.0	462.0	468.0	471.9	476.9
25°	447.1	450.1	456.1	462.0	466.0
27.5°	433.3	436.2	443.2	451.1	457.1
30°	419.4	422.4	429.3	439.2	445.2
32.5°	403.5	407.5	415.4	427.3	434.3
35°	386.7	391.6	401.5	413.4	421.4
37.5°	369.8	374.8	385.7	400.5	408.5
40°	353.0	357.9	369.8	385.7	395.6
42.5°	334.1	340.1	353.0	371.8	383.7
45°	316.3	322.2	337.1	358.9	371.8
47.5°	296.4	303.4	320.2	345.0	359.9
50°	276.6	284.5	303.4	331.1	347.0
52.5°	255.8	264.7	287.5	316.3	333.1
55°	235.0	244.9	271.7	301.4	318.3
57.5°	214.2	225.1	254.8	285.5	302.4
60°	193.3	205.2	237.9	269.7	286.5
62.5°	172.5	185.4	220.1	251.8	269.7
65°	150.7	166.6	202.3	234.0	250.8
67.5°	128.9	147.7	184.4	215.1	231.0
70°	108.1	128.9	165.6	194.3	209.2
72.5°	88.2	110.0	145.7	170.5	176.5
75°	69.4	92.2	124.9	132.9	134.8
77.5°	53.5	74.4	99.1	101.1	106.1
80°	38.7	56.5	67.4	73.4	75.3
82.5°	26.8	38.7	44.6	45.6	46.6
85°	16.9	20.8	22.8	21.8	21.8
87.5°	8.9	7.9	6.9	5.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)