

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: P230851

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230851
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-LD5-29-RDP-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1833.0 lumens
Efficiency: N/A
Efficacy: 78.0 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

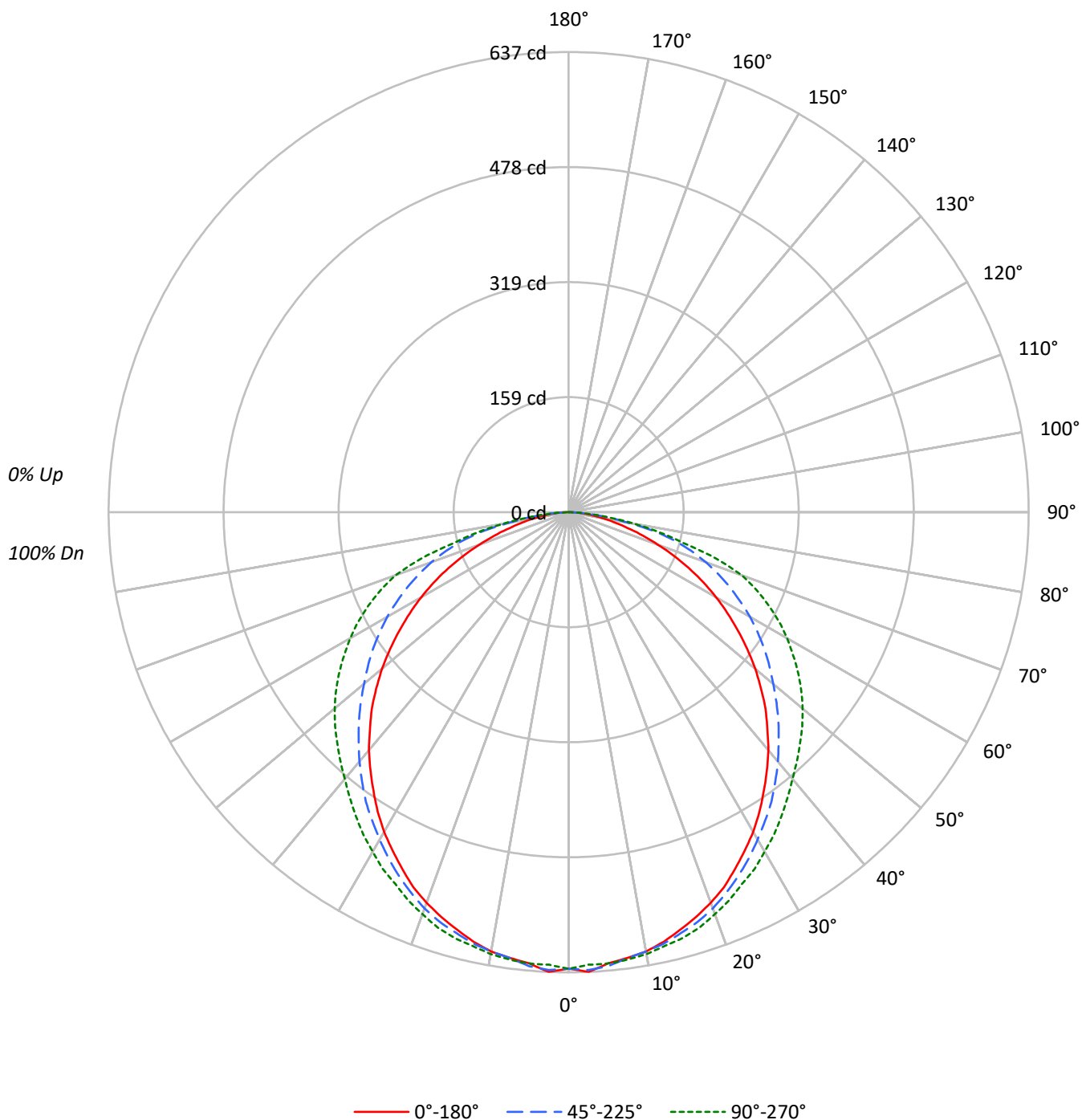
Input Watts (W): 23.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P230851

CATALOG NUMBER: 22CZ-LD5-29-RDP-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P230851

CATALOG NUMBER: 22CZ-LD5-29-RDP-UNV-L950-CD1-U

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°	1700	1700	1700
5°	1694	1704	1694
10°	1687	1687	1697
15°	1666	1680	1700
20°	1647	1671	1696
25°	1618	1650	1686
30°	1588	1626	1686
35°	1548	1608	1687
40°	1511	1583	1694
45°	1467	1563	1724
50°	1411	1548	1770
55°	1344	1553	1820
60°	1268	1561	1879
65°	1170	1570	1947
70°	1036	1588	2006
75°	880	1582	1708
80°	730	1274	1423
85°	633	858	821



TEST NUMBER: P230851

CATALOG NUMBER: 22CZ-LD5-29-RDP-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	3.3
10°-20°	170.3	9.3
20°-30°	256.2	14.0
30°-40°	307.0	16.8
40°-50°	320.2	17.5
50°-60°	298.1	16.3
60°-70°	242.1	13.2
70°-80°	145.9	8.0
80°-90°	33.5	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°	486.2	26.5
0°-40°	793.3	43.3
0°-60°	1411.6	77.0
0°-90°	1833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	627	627	631	632	627	60
15°	598	600	603	607	610	169
25°	545	549	556	563	568	251
35°	471	477	489	504	514	295
45°	386	393	411	437	453	297
55°	286	298	331	367	388	256
65°	184	203	246	285	306	182
75°	85	112	152	162	164	91
85°	20	25	28	27	27	24
90°	0	0	0	0	0	



TEST NUMBER: P230851

CATALOG NUMBER: 22CZ-LD5-29-RDP-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	631.9	631.9	631.9	631.9	631.9
2.5°	636.8	635.6	634.4	630.7	627.1
5°	627.1	627.1	630.7	631.9	627.1
7.5°	622.3	622.3	622.3	627.1	624.7
10°	617.4	617.4	617.4	621.1	621.1
12.5°	609.0	610.2	611.4	612.6	615.0
15°	598.1	600.5	602.9	606.6	610.2
17.5°	587.2	589.7	594.5	598.1	602.9
20°	575.2	577.6	583.6	587.2	592.1
22.5°	561.9	563.1	570.3	575.2	581.2
25°	545.0	548.6	555.8	563.1	567.9
27.5°	528.0	531.7	540.1	549.8	557.0
30°	511.1	514.7	523.2	535.3	542.5
32.5°	491.8	496.6	506.3	520.8	529.2
35°	471.2	477.3	489.4	503.9	513.5
37.5°	450.7	456.7	470.0	488.2	497.8
40°	430.2	436.2	450.7	470.0	482.1
42.5°	407.2	414.5	430.2	453.1	467.6
45°	385.5	392.7	410.8	437.4	453.1
47.5°	361.3	369.7	390.3	420.5	438.6
50°	337.1	346.8	369.7	403.6	422.9
52.5°	311.7	322.6	350.4	385.5	406.0
55°	286.4	298.5	331.1	367.3	387.9
57.5°	261.0	274.3	310.5	348.0	368.5
60°	235.6	250.1	290.0	328.7	349.2
62.5°	210.2	226.0	268.2	306.9	328.7
65°	183.7	203.0	246.5	285.2	305.7
67.5°	157.1	180.0	224.7	262.2	281.5
70°	131.7	157.1	201.8	236.8	255.0
72.5°	107.5	134.1	177.6	207.8	215.1
75°	84.6	112.4	152.2	161.9	164.3
77.5°	65.2	90.6	120.8	123.2	129.3
80°	47.1	68.9	82.2	89.4	91.8
82.5°	32.6	47.1	54.4	55.6	56.8
85°	20.5	25.4	27.8	26.6	26.6
87.5°	10.9	9.7	8.5	6.0	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)