

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: P230532

Luminaire Tested: **22CZ-LD5-20-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-UNV-L930-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RIBBED LENS
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1728.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

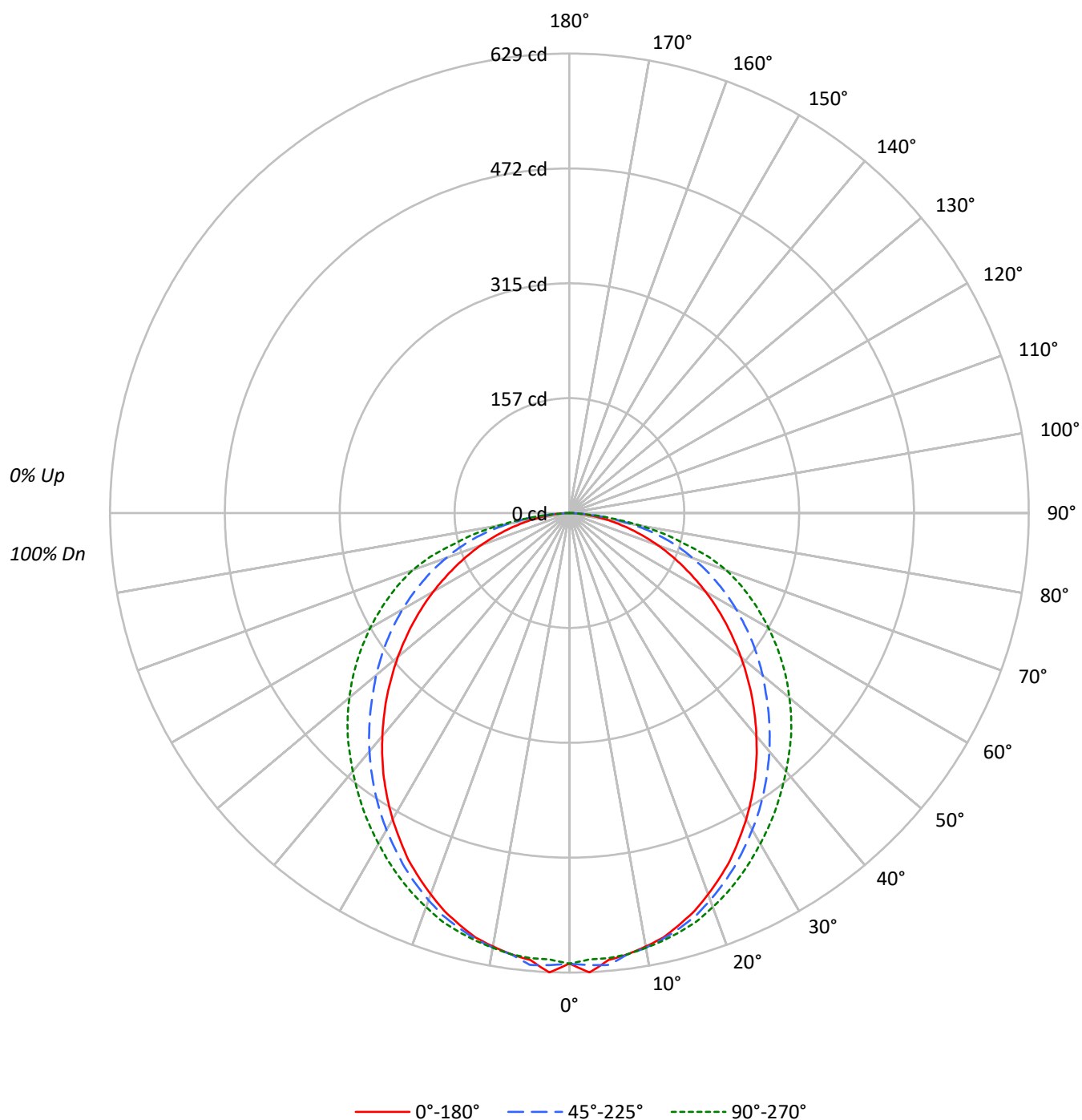
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	76		84	79	74			81	77	73			78
3	90	79	70	64	87	77	69	63		74	68	62			71	66	61			69
4	82	70	61	54	80	68	60	54		66	59	53			64	57	52			61
5	75	62	53	46	73	61	53	46		59	51	46			57	50	45			55
6	70	56	47	41	68	55	47	40		53	46	40			52	45	40			50
7	65	51	42	36	63	50	42	36		48	41	35			47	40	35			46
8	60	46	38	32	58	46	38	32		44	37	32			43	36	31			42
9	56	43	34	29	55	42	34	29		41	34	29			40	33	28			39
10	53	39	31	26	51	39	31	26		38	31	26			37	30	26			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1660	1660	1660
5°	1659	1677	1652
10°	1646	1651	1651
15°	1625	1636	1650
20°	1590	1615	1643
25°	1552	1587	1634
30°	1504	1556	1624
35°	1455	1527	1621
40°	1399	1496	1620
45°	1343	1468	1634
50°	1284	1446	1647
55°	1222	1431	1667
60°	1158	1420	1696
65°	1086	1412	1739
70°	1012	1408	1799
75°	917	1407	1704
80°	795	1302	1511
85°	673	985	960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	3.4
10°-20°	165.7	9.6
20°-30°	246.5	14.3
30°-40°	291.5	16.9
40°-50°	299.6	17.3
50°-60°	273.8	15.8
60°-70°	219.0	12.7
70°-80°	137.5	8.0
80°-90°	35.8	2.1
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°	470.7	27.2
0°-40°	762.2	44.1
0°-60°	1335.7	77.3
0°-90°	1728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1728.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	614	614	621	617	612	58
15°	583	584	587	591	592	164
25°	523	526	534	544	550	240
35°	443	449	465	482	493	277
45°	353	362	386	414	429	272
55°	260	273	305	339	355	233
65°	171	186	222	256	273	169
75°	88	105	135	156	164	94
85°	22	28	32	31	31	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	616.8	616.8	616.8	616.8	616.8
2.5°	629.4	626.9	619.3	614.3	611.7
5°	614.3	614.3	621.0	616.8	611.7
7.5°	609.2	609.2	609.2	621.8	609.2
10°	602.5	603.3	604.2	609.2	604.2
12.5°	594.9	594.9	596.6	598.3	599.1
15°	583.2	584.0	587.4	590.7	592.4
17.5°	570.6	573.1	577.3	581.5	584.8
20°	555.4	558.8	563.8	570.6	573.9
22.5°	539.5	542.8	549.6	557.1	563.0
25°	522.7	526.0	534.4	543.7	550.4
27.5°	503.3	507.5	517.6	530.2	537.0
30°	484.0	489.1	500.8	515.1	522.7
32.5°	463.8	469.7	483.2	499.1	508.4
35°	442.8	448.7	464.7	482.3	493.3
37.5°	421.0	427.7	445.4	465.5	477.3
40°	398.3	405.9	426.0	447.9	461.3
42.5°	375.6	384.0	405.9	431.9	445.4
45°	352.9	362.2	385.7	414.3	429.4
47.5°	329.4	340.3	364.7	396.6	411.7
50°	306.7	317.6	345.4	378.1	393.3
52.5°	283.2	295.8	325.2	358.8	374.8
55°	260.5	273.1	305.0	338.6	355.4
57.5°	237.8	250.4	284.0	318.5	335.3
60°	215.1	228.6	263.9	297.5	315.1
62.5°	192.4	206.7	242.8	277.3	294.1
65°	170.6	185.7	221.8	255.5	273.1
67.5°	149.6	165.5	200.8	233.6	251.3
70°	128.6	144.5	179.0	210.9	228.6
72.5°	108.4	124.4	158.0	186.5	200.0
75°	88.2	105.0	135.3	155.5	163.9
77.5°	68.9	85.7	111.8	125.2	134.4
80°	51.3	65.5	84.0	94.1	97.5
82.5°	35.3	47.1	58.8	61.3	63.0
85°	21.8	27.7	31.9	31.1	31.1
87.5°	10.1	10.9	9.2	6.7	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)