

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: P230533

Luminaire Tested: **22CZ-LD5-20-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230533
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-L935-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RIBBED LENS
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1796.0 lumens
Efficiency: N/A
Efficacy: 109.5 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

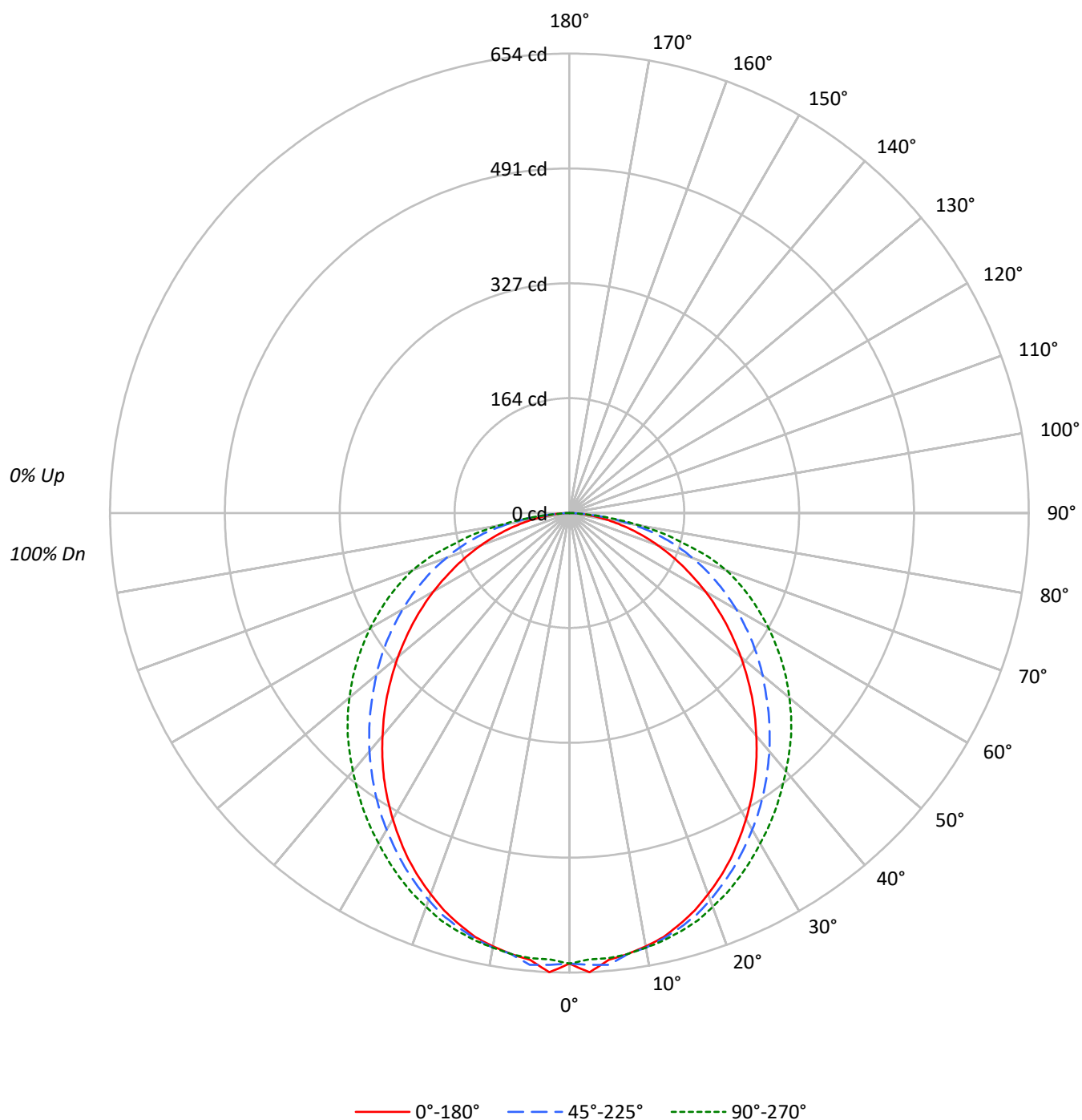
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
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	82	76	84	79	74	81	77	73	78	74	71	69		
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58		
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43		
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37		
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1725	1725	1725
5°	1724	1743	1717
10°	1711	1716	1716
15°	1689	1701	1715
20°	1653	1678	1708
25°	1613	1649	1699
30°	1563	1617	1688
35°	1512	1587	1684
40°	1454	1555	1684
45°	1396	1526	1698
50°	1335	1503	1711
55°	1270	1487	1733
60°	1203	1476	1763
65°	1129	1468	1807
70°	1051	1463	1869
75°	953	1462	1771
80°	826	1353	1570
85°	701	1025	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	3.4
10°-20°	172.2	9.6
20°-30°	256.2	14.3
30°-40°	303.0	16.9
40°-50°	311.4	17.3
50°-60°	284.6	15.8
60°-70°	227.7	12.7
70°-80°	142.9	8.0
80°-90°	37.2	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°	489.2	27.2
0°-40°	792.2	44.1
0°-60°	1388.3	77.3
0°-90°	1796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	641	641	641	641	641	
5°	638	638	645	641	636	61
15°	606	607	610	614	616	171
25°	543	547	556	565	572	250
35°	460	466	483	501	513	288
45°	367	376	401	431	446	283
55°	271	284	317	352	369	242
65°	177	193	231	266	284	176
75°	92	109	141	162	170	97
85°	23	29	33	32	32	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	641.1	641.1	641.1	641.1	641.1
2.5°	654.2	651.5	643.7	638.4	635.8
5°	638.4	638.4	645.4	641.1	635.8
7.5°	633.2	633.2	633.2	646.3	633.2
10°	626.2	627.1	628.0	633.2	628.0
12.5°	618.3	618.3	620.1	621.8	622.7
15°	606.1	607.0	610.5	614.0	615.7
17.5°	593.0	595.6	600.0	604.4	607.9
20°	577.3	580.8	586.0	593.0	596.5
22.5°	560.7	564.2	571.2	579.0	585.2
25°	543.2	546.7	555.5	565.1	572.1
27.5°	523.1	527.5	538.0	551.1	558.1
30°	503.1	508.3	520.5	535.4	543.2
32.5°	482.1	488.2	502.2	518.8	528.4
35°	460.3	466.4	483.0	501.3	512.7
37.5°	437.6	444.5	462.9	483.8	496.1
40°	414.0	421.8	442.8	465.5	479.5
42.5°	390.4	399.1	421.8	448.9	462.9
45°	366.8	376.4	400.9	430.6	446.3
47.5°	342.4	353.7	379.0	412.2	428.0
50°	318.8	330.1	359.0	393.0	408.7
52.5°	294.3	307.4	338.0	372.9	389.5
55°	270.7	283.8	317.0	352.0	369.4
57.5°	247.2	260.3	295.2	331.0	348.5
60°	223.6	237.6	274.2	309.2	327.5
62.5°	200.0	214.8	252.4	288.2	305.7
65°	177.3	193.0	230.6	265.5	283.8
67.5°	155.5	172.1	208.7	242.8	261.1
70°	133.6	150.2	186.0	219.2	237.6
72.5°	112.7	129.3	164.2	193.9	207.9
75°	91.7	109.2	140.6	161.6	170.3
77.5°	71.6	89.1	116.2	130.1	139.7
80°	53.3	68.1	87.3	97.8	101.3
82.5°	36.7	48.9	61.1	63.8	65.5
85°	22.7	28.8	33.2	32.3	32.3
87.5°	10.5	11.4	9.6	7.0	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)