

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: P#

Luminaire Tested: **22CZ-LD5-20-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-S-UNV-L830-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2002.9 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

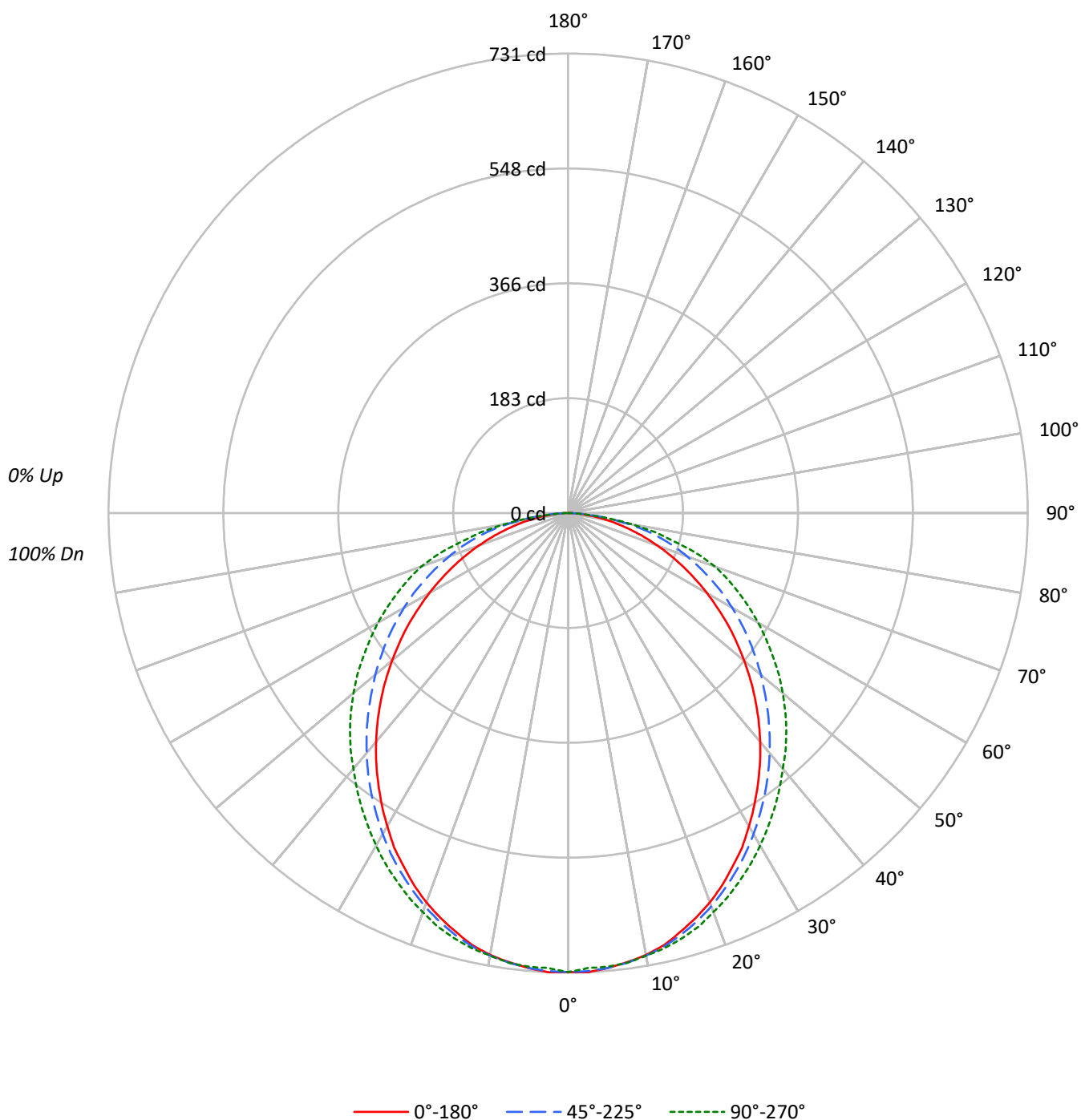
Input Watts (W): 16.38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1965	1965	1965
5°	1954	1950	1948
10°	1933	1929	1936
15°	1896	1899	1925
20°	1853	1859	1900
25°	1798	1811	1873
30°	1737	1761	1845
35°	1670	1707	1817
40°	1602	1653	1790
45°	1527	1597	1778
50°	1444	1545	1760
55°	1361	1496	1740
60°	1263	1444	1730
65°	1162	1388	1721
70°	1045	1324	1717
75°	902	1242	1525
80°	732	1042	1230
85°	491	608	623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	3.4
10°-20°	195.9	9.8
20°-30°	290.9	14.5
30°-40°	342.5	17.1
40°-50°	349.1	17.4
50°-60°	314.9	15.7
60°-70°	248.0	12.4
70°-80°	153.0	7.6
80°-90°	39.7	2.0
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°	555.8	27.7
0°-40°	898.2	44.8
0°-60°	1562.2	78.0
0°-90°	2002.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2002.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	730	730	730	730	730	
5°	726	727	726	725	724	69
15°	690	693	694	698	700	194
25°	620	623	630	641	646	285
35°	526	532	546	563	572	329
45°	421	428	449	476	491	325
55°	311	321	351	383	397	277
65°	202	216	251	283	299	200
75°	103	120	151	168	174	110
85°	25	32	36	34	32	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	730.2	730.2	730.2	730.2	730.2
2.5°	731.1	731.1	729.2	727.3	724.4
5°	726.4	727.3	726.4	725.3	724.4
7.5°	720.6	721.5	721.5	721.5	721.5
10°	713.8	714.8	714.8	714.8	714.8
12.5°	704.2	705.2	706.1	707.1	709.0
15°	689.8	692.6	694.5	698.4	700.3
17.5°	675.4	678.2	681.2	685.9	689.8
20°	659.0	660.9	665.8	671.5	675.4
22.5°	640.7	643.6	648.4	656.1	661.9
25°	619.6	623.4	630.1	640.7	645.5
27.5°	599.4	602.2	610.8	622.4	629.2
30°	575.3	579.1	589.8	604.1	610.8
32.5°	551.3	556.0	567.6	584.0	591.7
35°	526.2	532.0	545.5	562.8	572.4
37.5°	501.2	507.0	522.4	541.6	552.2
40°	475.3	481.0	498.4	519.5	531.0
42.5°	448.3	455.0	474.2	498.4	511.8
45°	421.3	428.1	449.3	476.2	490.7
47.5°	393.5	401.2	424.3	454.1	468.5
50°	365.6	374.2	400.2	431.0	445.5
52.5°	337.6	347.3	375.2	407.0	422.4
55°	310.7	321.3	351.1	382.8	397.3
57.5°	281.9	294.4	326.1	356.9	373.3
60°	255.0	268.4	301.2	331.9	349.2
62.5°	228.0	242.4	277.0	307.9	324.2
65°	202.1	216.4	251.1	282.8	299.2
67.5°	176.0	192.4	226.1	257.8	274.2
70°	151.0	168.3	201.0	231.9	248.2
72.5°	127.0	144.3	177.0	205.9	215.5
75°	103.0	120.3	151.0	168.3	174.1
77.5°	80.8	97.2	124.1	134.7	142.4
80°	60.6	75.0	94.2	101.0	101.9
82.5°	41.3	53.9	65.5	66.4	65.5
85°	25.0	31.7	35.6	33.6	31.7
87.5°	11.6	12.5	11.6	7.7	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)