

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-LD5-20SE-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 (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20SE-UNV-L830-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1947.6 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

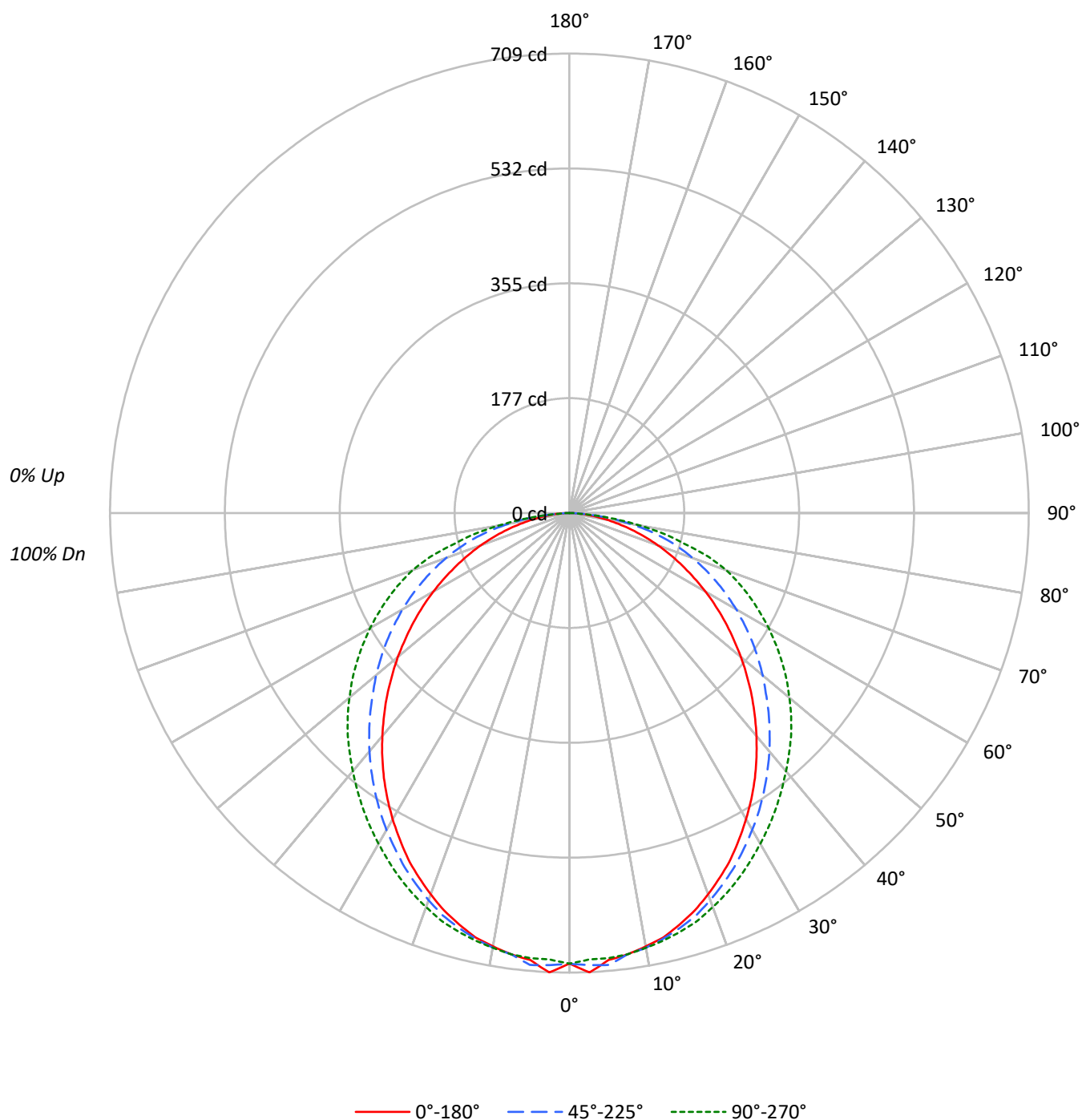
Input Watts (W): 17.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-20SE-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-20SE-UNV-L830-CD1-U

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1871	1871	1871
5°	1862	1879	1854
10°	1839	1838	1845
15°	1807	1810	1836
20°	1761	1774	1819
25°	1709	1732	1800
30°	1647	1685	1779
35°	1584	1639	1764
40°	1514	1592	1753
45°	1442	1545	1754
50°	1366	1503	1751
55°	1286	1465	1754
60°	1201	1425	1759
65°	1106	1382	1770
70°	1002	1329	1782
75°	872	1255	1618
80°	698	1047	1326
85°	483	615	690



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-20SE-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	3.4
10°-20°	186.8	9.6
20°-30°	277.8	14.3
30°-40°	328.6	16.9
40°-50°	337.7	17.3
50°-60°	308.6	15.8
60°-70°	246.9	12.7
70°-80°	154.9	8.0
80°-90°	40.4	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°	530.5	27.2
0°-40°	859.1	44.1
0°-60°	1505.5	77.3
0°-90°	1947.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1947.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	692	692	700	695	690	66
15°	657	658	662	666	668	185
25°	589	593	602	613	620	271
35°	499	506	524	544	556	312
45°	398	408	435	467	484	307
55°	294	308	344	382	401	263
65°	192	209	250	288	308	191
75°	100	118	152	175	185	106
85°	25	31	36	35	35	28
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-20SE-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.2	695.2	695.2	695.2	695.2
2.5°	709.4	706.5	698.1	692.4	689.5
5°	692.4	692.4	699.9	695.2	689.5
7.5°	686.7	686.7	686.7	700.8	686.7
10°	679.1	680.0	681.0	686.7	681.0
12.5°	670.5	670.5	672.4	674.3	675.3
15°	657.3	658.3	662.1	665.9	667.8
17.5°	643.1	645.9	650.7	655.4	659.2
20°	626.0	629.8	635.6	643.1	646.9
22.5°	608.0	611.8	619.4	627.9	634.6
25°	589.1	592.9	602.4	612.8	620.4
27.5°	567.3	572.1	583.4	597.6	605.2
30°	545.5	551.2	564.5	580.5	589.1
32.5°	522.8	529.4	544.5	562.6	573.0
35°	499.1	505.8	523.7	543.6	555.9
37.5°	474.5	482.0	502.0	524.7	538.0
40°	449.0	457.4	480.2	504.8	519.9
42.5°	423.3	432.8	457.4	486.8	502.0
45°	397.8	408.2	434.7	466.9	483.9
47.5°	371.3	383.6	411.1	447.1	464.1
50°	345.7	358.0	389.2	426.2	443.3
52.5°	319.2	333.4	366.5	404.4	422.4
55°	293.6	307.8	343.8	381.7	400.6
57.5°	268.0	282.2	320.2	358.9	377.9
60°	242.4	257.6	297.3	335.3	355.2
62.5°	216.9	232.9	273.7	312.6	331.5
65°	192.3	209.3	250.0	287.9	307.8
67.5°	168.6	186.6	226.4	263.3	283.2
70°	144.9	162.9	201.8	237.7	257.6
72.5°	122.2	140.1	178.0	210.2	225.4
75°	99.5	118.4	152.5	175.2	184.7
77.5°	77.6	96.6	126.0	141.1	151.5
80°	57.8	73.9	94.7	106.1	109.8
82.5°	39.8	53.0	66.3	69.2	71.1
85°	24.6	31.3	36.0	35.1	35.1
87.5°	11.4	12.4	10.4	7.6	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)