

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: P474995

Luminaire Tested: **22CZ2-32-RDP-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P474995
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-32-RDP-UNV-L830-CD1-U
Description: 2'X2' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

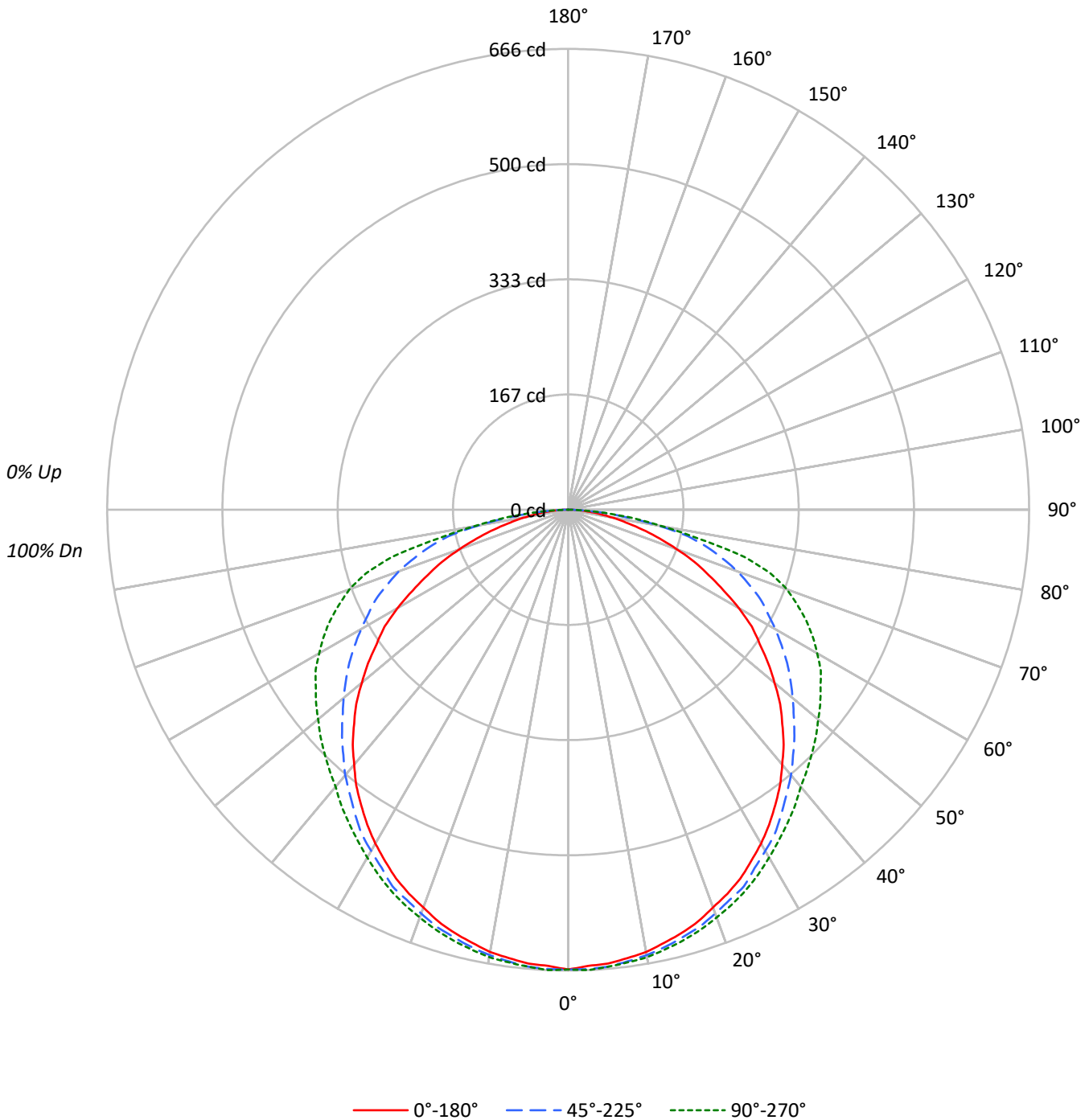
Lumens per Lamp: N/A
Luminaire Lumens: 2115.6 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.2
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: P474995
CATALOG NUMBER: 22CZ2-32-RDP-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P474995

CATALOG NUMBER: 22CZ2-32-RDP-UNV-L830-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1788	1788	1788
5°	1778	1791	1791
10°	1773	1786	1795
15°	1765	1782	1795
20°	1751	1778	1796
25°	1747	1784	1802
30°	1731	1770	1804
35°	1713	1764	1815
40°	1689	1760	1837
45°	1664	1759	1895
50°	1629	1772	1974
55°	1584	1811	2088
60°	1533	1859	2236
65°	1427	1953	2418
70°	1311	2046	2645
75°	1150	2151	2734
80°	990	2049	2148
85°	865	1488	1633



TEST NUMBER: P474995

CATALOG NUMBER: 22CZ2-32-RDP-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	3.0
10°-20°	180.5	8.5
20°-30°	275.4	13.0
30°-40°	336.2	15.9
40°-50°	359.5	17.0
50°-60°	347.0	16.4
60°-70°	298.7	14.1
70°-80°	202.1	9.6
80°-90°	53.4	2.5
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°	518.7	24.5
0°-40°	854.9	40.4
0°-60°	1561.4	73.8
0°-90°	2115.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2115.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	658	660	663	663	663	63
15°	633	635	640	643	644	179
25°	588	591	601	604	607	271
35°	521	526	537	548	552	326
45°	437	445	462	486	498	338
55°	338	349	386	425	445	303
65°	224	246	307	355	380	223
75°	111	146	207	249	263	119
85°	28	39	48	50	53	32
90°	0	0	0	0	0	



TEST NUMBER: P474995

CATALOG NUMBER: 22CZ2-32-RDP-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664.5	664.5	664.5	664.5	664.5
2.5°	659.9	661.4	664.5	664.5	666.0
5°	658.3	659.9	663.0	663.0	663.0
7.5°	653.7	655.2	658.3	659.9	659.9
10°	648.9	650.6	653.7	655.2	656.8
12.5°	641.1	642.7	647.3	650.6	650.6
15°	633.4	635.0	639.6	642.7	644.2
17.5°	624.0	627.2	631.9	635.0	636.5
20°	611.6	614.7	620.9	625.7	627.2
22.5°	600.8	603.9	610.1	614.7	617.8
25°	588.3	591.4	600.8	603.9	607.0
27.5°	572.6	575.9	583.6	589.8	594.4
30°	557.2	560.3	569.5	577.4	580.5
32.5°	540.0	544.7	555.6	561.8	566.5
35°	521.3	525.9	536.9	547.7	552.5
37.5°	502.7	507.4	518.2	532.3	538.5
40°	480.9	487.1	501.0	519.8	522.8
42.5°	460.7	468.4	480.9	502.7	510.5
45°	437.3	445.1	462.2	485.6	497.9
47.5°	415.5	423.3	442.0	470.0	485.6
50°	389.1	399.9	423.3	456.0	471.5
52.5°	364.2	373.5	404.7	440.4	459.1
55°	337.7	348.6	386.0	424.8	445.1
57.5°	314.4	323.7	365.7	409.3	432.7
60°	284.9	297.2	345.5	392.2	415.5
62.5°	253.6	272.3	325.2	373.5	398.4
65°	224.1	245.9	306.7	354.8	379.8
67.5°	197.6	221.0	283.3	334.6	358.0
70°	166.6	196.1	260.0	309.7	336.2
72.5°	138.6	171.2	233.5	283.3	306.7
75°	110.6	146.3	206.9	249.0	263.0
77.5°	85.5	119.8	177.4	189.9	191.4
80°	63.9	95.0	132.2	133.8	138.6
82.5°	43.6	67.0	85.5	93.4	95.0
85°	28.0	39.0	48.2	49.8	52.9
87.5°	12.5	14.1	17.2	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)