

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: P474898

Luminaire Tested: **22CZ2-75VHE-S-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P474898
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-75VHE-S-UNV-L830-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SMOOTH LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7470.3 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

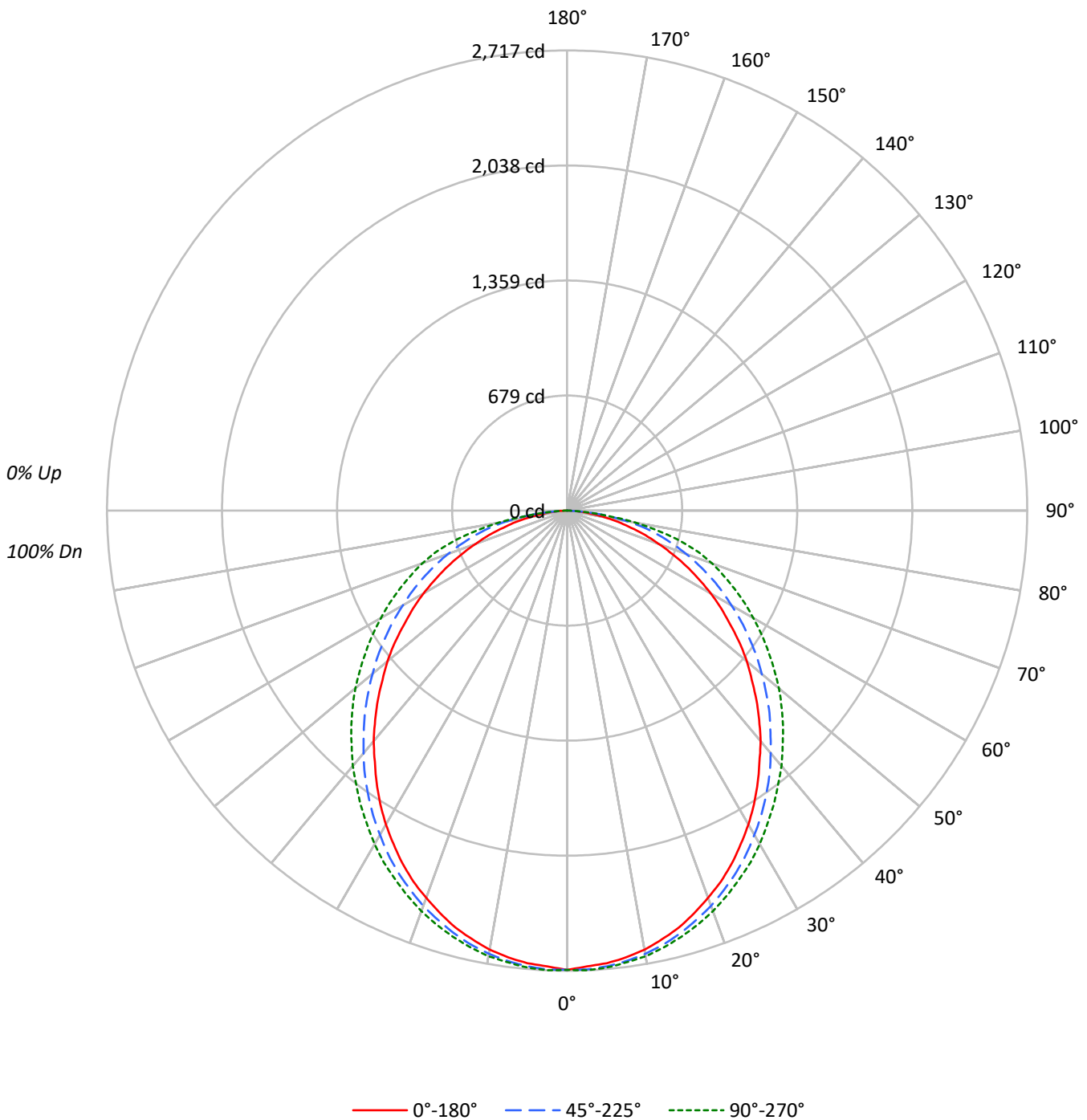
Input Watts (W): 55.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P474898

CATALOG NUMBER: 22CZ2-75VHE-S-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P474898

CATALOG NUMBER: 22CZ2-75VHE-S-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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7297	7297	7297
5°	7247	7296	7315
10°	7192	7262	7301
15°	7101	7197	7257
20°	6968	7113	7206
25°	6828	7005	7134
30°	6651	6870	7067
35°	6444	6728	6978
40°	6243	6567	6916
45°	6013	6426	6859
50°	5797	6282	6834
55°	5522	6158	6802
60°	5273	6032	6830
65°	4950	5962	6930
70°	4523	5888	7154
75°	4060	5845	7162
80°	3419	5518	6360
85°	2569	3739	3461



TEST NUMBER: P474898

CATALOG NUMBER: 22CZ2-75VHE-S-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.1	3.4
10°-20°	727.4	9.7
20°-30°	1084.5	14.5
30°-40°	1279.7	17.1
40°-50°	1303.8	17.5
50°-60°	1175.8	15.7
60°-70°	923.4	12.4
70°-80°	577.3	7.7
80°-90°	142.3	1.9
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°	2068.0	27.7
0°-40°	3347.7	44.8
0°-60°	5827.2	78.0
0°-90°	7470.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7470.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2712	2712	2712	2712	2712	
5°	2683	2688	2701	2706	2708	254
15°	2549	2558	2583	2601	2605	718
25°	2300	2312	2359	2394	2403	1058
35°	1962	1989	2048	2104	2124	1227
45°	1580	1607	1688	1770	1802	1219
55°	1177	1215	1312	1414	1450	1056
65°	777	819	936	1041	1088	768
75°	390	445	562	658	689	417
85°	83	107	121	119	112	101
90°	0	0	0	0	0	



TEST NUMBER: P474898

CATALOG NUMBER: 22CZ2-75VHE-S-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2711.7	2711.7	2711.7	2711.7	2711.7
2.5°	2693.6	2699.1	2711.7	2717.1	2717.1
5°	2682.8	2688.2	2700.9	2706.3	2708.1
7.5°	2661.1	2668.3	2682.8	2690.0	2690.0
10°	2632.2	2641.2	2657.5	2668.3	2671.9
12.5°	2592.4	2603.2	2624.9	2637.6	2641.2
15°	2549.0	2558.0	2583.4	2601.4	2605.0
17.5°	2493.0	2507.4	2534.5	2558.0	2563.5
20°	2433.3	2449.6	2483.9	2511.0	2516.5
22.5°	2371.8	2384.5	2422.5	2455.0	2462.2
25°	2299.5	2312.2	2359.2	2393.5	2402.6
27.5°	2220.0	2241.7	2288.7	2328.5	2342.9
30°	2140.4	2162.1	2210.9	2257.9	2274.2
32.5°	2053.7	2077.2	2133.2	2182.0	2198.3
35°	1961.5	1988.6	2048.2	2104.3	2124.2
37.5°	1865.7	1896.4	1963.3	2022.9	2044.6
40°	1777.1	1798.8	1869.3	1938.0	1968.7
42.5°	1677.6	1706.6	1777.1	1854.8	1883.7
45°	1580.0	1607.1	1688.5	1769.8	1802.4
47.5°	1478.8	1513.1	1594.5	1684.9	1717.4
50°	1384.8	1413.7	1500.5	1596.3	1632.4
52.5°	1283.5	1314.3	1408.3	1507.7	1540.3
55°	1176.9	1214.8	1312.5	1413.7	1449.9
57.5°	1079.3	1115.4	1218.5	1323.3	1361.3
60°	979.8	1016.0	1120.8	1227.5	1269.1
62.5°	875.0	916.6	1030.4	1133.5	1180.5
65°	777.4	818.9	936.4	1041.3	1088.3
67.5°	674.3	723.1	840.6	950.9	997.9
70°	574.9	632.7	748.4	856.9	909.3
72.5°	486.3	533.3	654.4	768.3	811.7
75°	390.5	444.7	562.2	658.0	688.8
77.5°	309.1	356.1	468.2	531.5	551.4
80°	220.6	273.0	356.1	394.1	410.4
82.5°	146.4	189.8	242.2	249.5	245.9
85°	83.2	106.7	121.1	119.3	112.1
87.5°	32.5	36.2	27.1	16.3	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)