

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: P475279

Luminaire Tested: **22CZ2-95VHE-SQR-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475279
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-95VHE-SQR-UNV-L835-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SQUARE LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9027.2 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

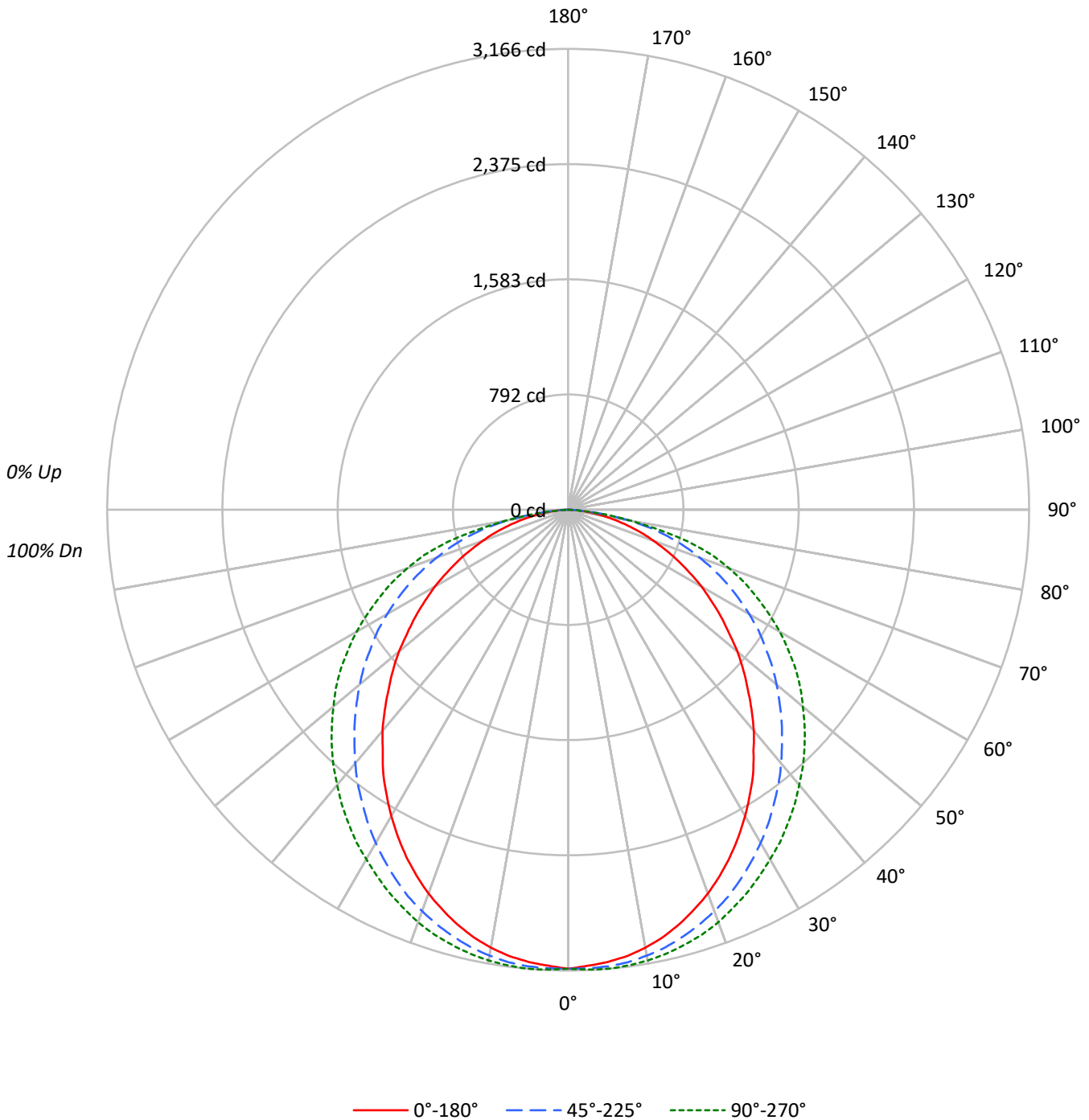
Input Watts (W): 71.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	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	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	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°	8485	8485	8485
5°	8425	8506	8554
10°	8348	8500	8593
15°	8213	8462	8618
20°	8036	8405	8637
25°	7811	8319	8625
30°	7549	8214	8614
35°	7276	8092	8642
40°	6968	7992	8670
45°	6636	7892	8740
50°	6350	7820	8807
55°	6010	7758	8946
60°	5695	7726	9040
65°	5319	7664	9110
70°	4887	7550	9236
75°	4412	7350	8907
80°	3784	6510	6709
85°	3044	3835	3044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.0	3.3
10°-20°	854.7	9.5
20°-30°	1283.8	14.2
30°-40°	1531.1	17.0
40°-50°	1583.0	17.5
50°-60°	1455.4	16.1
60°-70°	1158.6	12.8
70°-80°	707.9	7.8
80°-90°	153.8	1.7
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°	2437.5	27.0
0°-40°	3968.6	44.0
0°-60°	7006.9	77.6
0°-90°	9027.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9027.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3153	3153	3153	3153	3153	
5°	3119	3128	3149	3162	3166	296
15°	2948	2982	3038	3081	3094	830
25°	2631	2695	2802	2879	2905	1210
35°	2215	2309	2463	2592	2631	1382
45°	1744	1868	2074	2241	2296	1348
55°	1281	1422	1654	1842	1907	1146
65°	835	977	1204	1371	1431	828
75°	424	548	707	831	857	452
85°	99	120	124	107	99	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3153.3	3153.3	3153.3	3153.3	3153.3
2.5°	3136.2	3140.5	3153.3	3162.3	3162.3
5°	3119.1	3127.7	3149.0	3162.3	3166.5
7.5°	3093.5	3106.3	3136.2	3153.3	3158.0
10°	3055.1	3072.2	3110.6	3136.2	3144.7
12.5°	3007.7	3033.3	3080.7	3114.8	3123.4
15°	2948.0	2982.1	3037.6	3080.7	3093.5
17.5°	2879.2	2921.9	2990.6	3042.3	3059.4
20°	2806.2	2849.4	2935.2	2994.9	3016.2
22.5°	2720.9	2776.3	2875.0	2943.7	2960.8
25°	2630.8	2694.8	2801.9	2879.2	2904.8
27.5°	2532.2	2609.5	2725.1	2819.5	2840.8
30°	2429.3	2510.8	2643.6	2746.5	2772.1
32.5°	2322.2	2416.5	2557.8	2673.5	2708.1
35°	2215.0	2309.4	2463.4	2592.4	2630.8
37.5°	2090.8	2202.2	2373.8	2506.6	2553.5
40°	1983.6	2090.8	2275.2	2420.8	2468.2
42.5°	1863.7	1979.4	2172.3	2330.7	2386.6
45°	1743.7	1868.0	2073.7	2241.1	2296.5
47.5°	1632.3	1756.5	1970.8	2146.7	2202.2
50°	1516.7	1645.1	1868.0	2048.1	2103.6
52.5°	1392.4	1533.7	1765.1	1945.2	2009.7
55°	1281.0	1422.3	1653.7	1842.4	1906.8
57.5°	1165.3	1310.9	1551.3	1730.9	1791.2
60°	1058.2	1199.5	1435.6	1611.0	1679.7
62.5°	942.5	1088.1	1319.4	1491.1	1555.5
65°	835.4	977.1	1203.7	1371.1	1430.8
67.5°	728.2	870.0	1083.8	1242.6	1310.9
70°	621.1	762.8	959.6	1114.1	1173.9
72.5°	527.2	651.4	839.6	981.4	1036.9
75°	424.3	548.5	706.9	831.1	856.7
77.5°	330.0	441.4	574.1	629.6	638.6
80°	244.2	330.0	420.1	432.9	432.9
82.5°	162.6	227.1	261.2	265.5	261.2
85°	98.6	119.9	124.2	107.1	98.6
87.5°	34.1	34.1	21.3	12.8	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)