

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: P474921

Luminaire Tested: **22CZ2-44VHE-S-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P474921
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44VHE-S-UNV-L835-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SMOOTH LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4497.4 lumens
Efficiency: N/A
Efficacy: 148.9 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

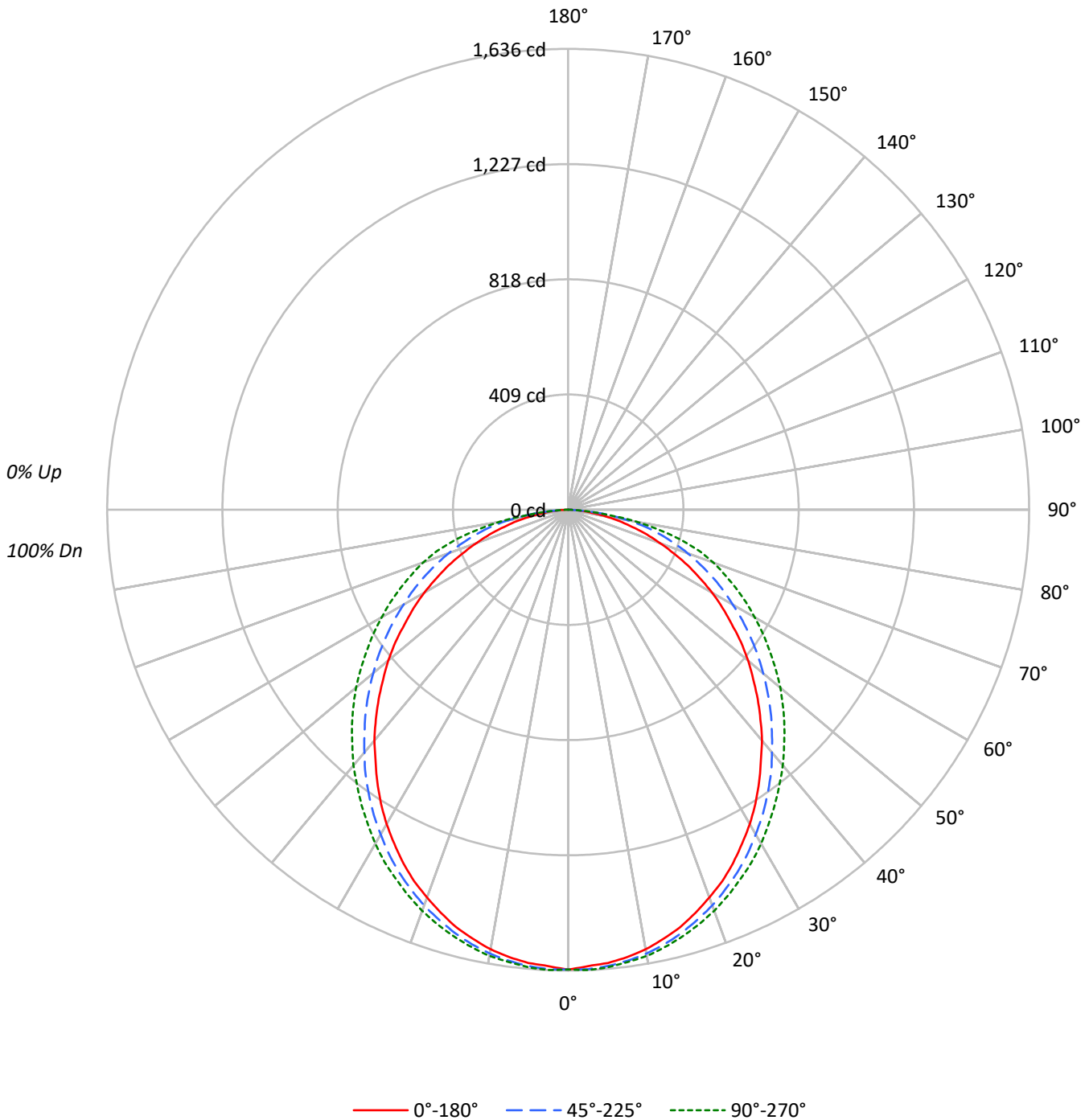
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4393	4393	4393
5°	4363	4392	4404
10°	4330	4372	4395
15°	4275	4333	4369
20°	4195	4282	4338
25°	4111	4217	4295
30°	4004	4136	4254
35°	3879	4051	4201
40°	3758	3953	4163
45°	3620	3868	4129
50°	3490	3782	4114
55°	3324	3707	4095
60°	3175	3632	4112
65°	2980	3590	4172
70°	2723	3545	4308
75°	2444	3519	4312
80°	2058	3322	3829
85°	1547	2251	2084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	3.4
10°-20°	437.9	9.7
20°-30°	652.9	14.5
30°-40°	770.4	17.1
40°-50°	784.9	17.5
50°-60°	707.9	15.7
60°-70°	555.9	12.4
70°-80°	347.6	7.7
80°-90°	85.7	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°	1245.0	27.7
0°-40°	2015.4	44.8
0°-60°	3508.3	78.0
0°-90°	4497.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4497.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1633	1633	1633	1633	1633	
5°	1615	1618	1626	1629	1630	153
15°	1535	1540	1555	1566	1568	432
25°	1384	1392	1420	1441	1446	637
35°	1181	1197	1233	1267	1279	739
45°	951	968	1016	1066	1085	734
55°	708	731	790	851	873	636
65°	468	493	564	627	655	462
75°	235	268	338	396	415	251
85°	50	64	73	72	68	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1632.6	1632.6	1632.6	1632.6	1632.6
2.5°	1621.7	1624.9	1632.6	1635.8	1635.8
5°	1615.2	1618.4	1626.0	1629.3	1630.4
7.5°	1602.1	1606.4	1615.2	1619.5	1619.5
10°	1584.7	1590.1	1599.9	1606.4	1608.6
12.5°	1560.7	1567.3	1580.3	1587.9	1590.1
15°	1534.6	1540.1	1555.3	1566.2	1568.4
17.5°	1500.9	1509.6	1525.9	1540.1	1543.3
20°	1465.0	1474.8	1495.4	1511.8	1515.0
22.5°	1428.0	1435.6	1458.4	1478.0	1482.4
25°	1384.4	1392.0	1420.3	1441.0	1446.5
27.5°	1336.5	1349.6	1377.9	1401.8	1410.5
30°	1288.6	1301.7	1331.1	1359.4	1369.2
32.5°	1236.4	1250.5	1284.3	1313.7	1323.5
35°	1180.9	1197.2	1233.1	1266.9	1278.8
37.5°	1123.2	1141.7	1182.0	1217.9	1231.0
40°	1069.9	1082.9	1125.4	1166.7	1185.2
42.5°	1010.0	1027.4	1069.9	1116.7	1134.1
45°	951.2	967.6	1016.5	1065.5	1085.1
47.5°	890.3	911.0	959.9	1014.4	1034.0
50°	833.7	851.1	903.4	961.0	982.8
52.5°	772.7	791.3	847.8	907.7	927.3
55°	708.5	731.4	790.2	851.1	872.9
57.5°	649.8	671.5	733.6	796.7	819.5
60°	589.9	611.7	674.8	739.0	764.0
62.5°	526.8	551.8	620.4	682.4	710.7
65°	468.0	493.0	563.8	626.9	655.2
67.5°	406.0	435.4	506.1	572.5	600.8
70°	346.1	380.9	450.6	515.9	547.5
72.5°	292.8	321.1	394.0	462.6	488.7
75°	235.1	267.7	338.5	396.2	414.7
77.5°	186.1	214.4	281.9	320.0	332.0
80°	132.8	164.3	214.4	237.3	247.1
82.5°	88.2	114.3	145.8	150.2	148.0
85°	50.1	64.2	72.9	71.8	67.5
87.5°	19.6	21.8	16.3	9.8	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)