

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: P474932

Luminaire Tested: **22CZ2-100VHE-S-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P474932
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-100VHE-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: 10222.0 lumens
Efficiency: N/A
Efficacy: 134.9 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

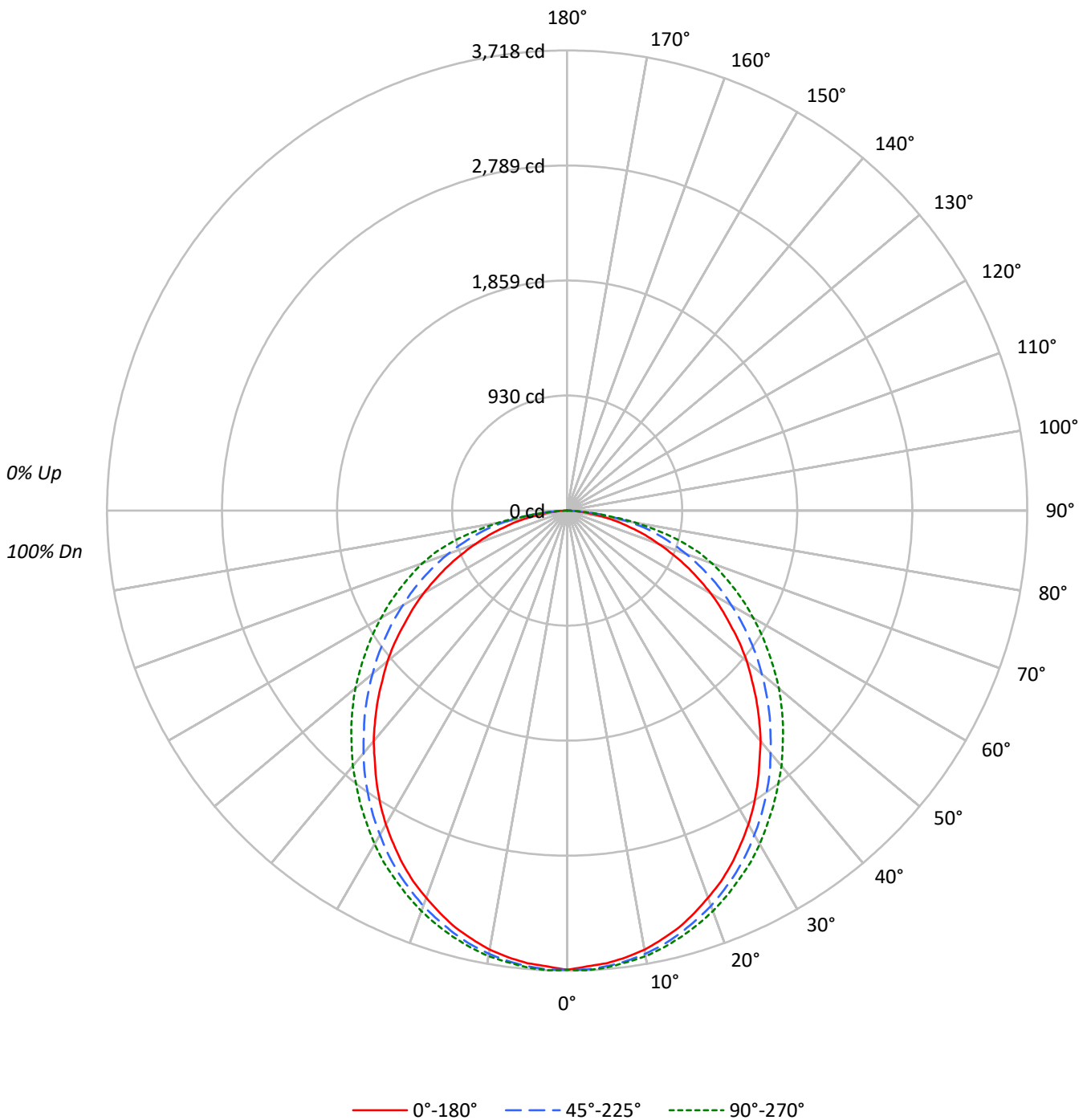
Input Watts (W): 75.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9985	9985	9985
5°	9916	9983	10010
10°	9842	9936	9991
15°	9717	9848	9931
20°	9535	9733	9861
25°	9343	9585	9761
30°	9101	9401	9670
35°	8817	9207	9548
40°	8542	8985	9463
45°	8228	8793	9386
50°	7933	8596	9352
55°	7555	8426	9308
60°	7216	8254	9346
65°	6773	8159	9482
70°	6189	8058	9790
75°	5555	7999	9799
80°	4677	7552	8701
85°	3514	5116	4736



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.5	3.4
10°-20°	995.3	9.7
20°-30°	1484.0	14.5
30°-40°	1751.0	17.1
40°-50°	1784.0	17.5
50°-60°	1608.9	15.7
60°-70°	1263.6	12.4
70°-80°	789.9	7.7
80°-90°	194.7	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°	2829.8	27.7
0°-40°	4580.8	44.8
0°-60°	7973.8	78.0
0°-90°	10222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10222.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3711	3711	3711	3711	3711	
5°	3671	3678	3696	3703	3706	348
15°	3488	3500	3535	3560	3565	982
25°	3147	3164	3228	3275	3288	1448
35°	2684	2721	2803	2879	2907	1679
45°	2162	2199	2310	2422	2466	1668
55°	1610	1662	1796	1934	1984	1444
65°	1064	1121	1281	1425	1489	1051
75°	534	608	769	900	942	571
85°	114	146	166	163	153	139
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3710.6	3710.6	3710.6	3710.6	3710.6
2.5°	3685.8	3693.3	3710.6	3718.0	3718.0
5°	3671.0	3678.4	3695.7	3703.2	3705.6
7.5°	3641.3	3651.2	3671.0	3680.9	3680.9
10°	3601.7	3614.1	3636.4	3651.2	3656.2
12.5°	3547.3	3562.2	3591.8	3609.2	3614.1
15°	3487.9	3500.3	3534.9	3559.7	3564.6
17.5°	3411.3	3431.1	3468.2	3500.3	3507.7
20°	3329.6	3351.9	3398.9	3436.0	3443.4
22.5°	3245.5	3262.8	3314.8	3359.3	3369.2
25°	3146.6	3163.9	3228.2	3275.2	3287.6
27.5°	3037.7	3067.4	3131.7	3186.2	3205.9
30°	2928.9	2958.6	3025.4	3089.7	3111.9
32.5°	2810.1	2842.3	2919.0	2985.8	3008.0
35°	2684.0	2721.1	2802.7	2879.4	2906.6
37.5°	2552.9	2594.9	2686.5	2768.1	2797.8
40°	2431.7	2461.4	2557.8	2651.8	2693.9
42.5°	2295.6	2335.2	2431.7	2538.0	2577.6
45°	2162.0	2199.1	2310.5	2421.8	2466.3
47.5°	2023.5	2070.5	2181.8	2305.5	2350.0
50°	1894.9	1934.5	2053.2	2184.3	2233.8
52.5°	1756.3	1798.4	1927.0	2063.1	2107.6
55°	1610.4	1662.3	1795.9	1934.5	1983.9
57.5°	1476.8	1526.3	1667.3	1810.8	1862.7
60°	1340.8	1390.2	1533.7	1679.7	1736.6
62.5°	1197.3	1254.2	1410.0	1551.0	1615.3
65°	1063.7	1120.6	1281.4	1424.9	1489.2
67.5°	922.7	989.5	1150.3	1301.2	1365.5
70°	786.6	865.8	1024.1	1172.5	1244.3
72.5°	665.4	729.7	895.5	1051.3	1110.7
75°	534.3	608.5	769.3	900.4	942.5
77.5°	423.0	487.3	640.7	727.3	754.5
80°	301.8	373.5	487.3	539.3	561.5
82.5°	200.4	259.7	331.5	341.4	336.4
85°	113.8	145.9	165.7	163.3	153.4
87.5°	44.5	49.5	37.1	22.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)