

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: P474815

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P474815
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-95VHE-UNV-L835-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,RIBBED LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

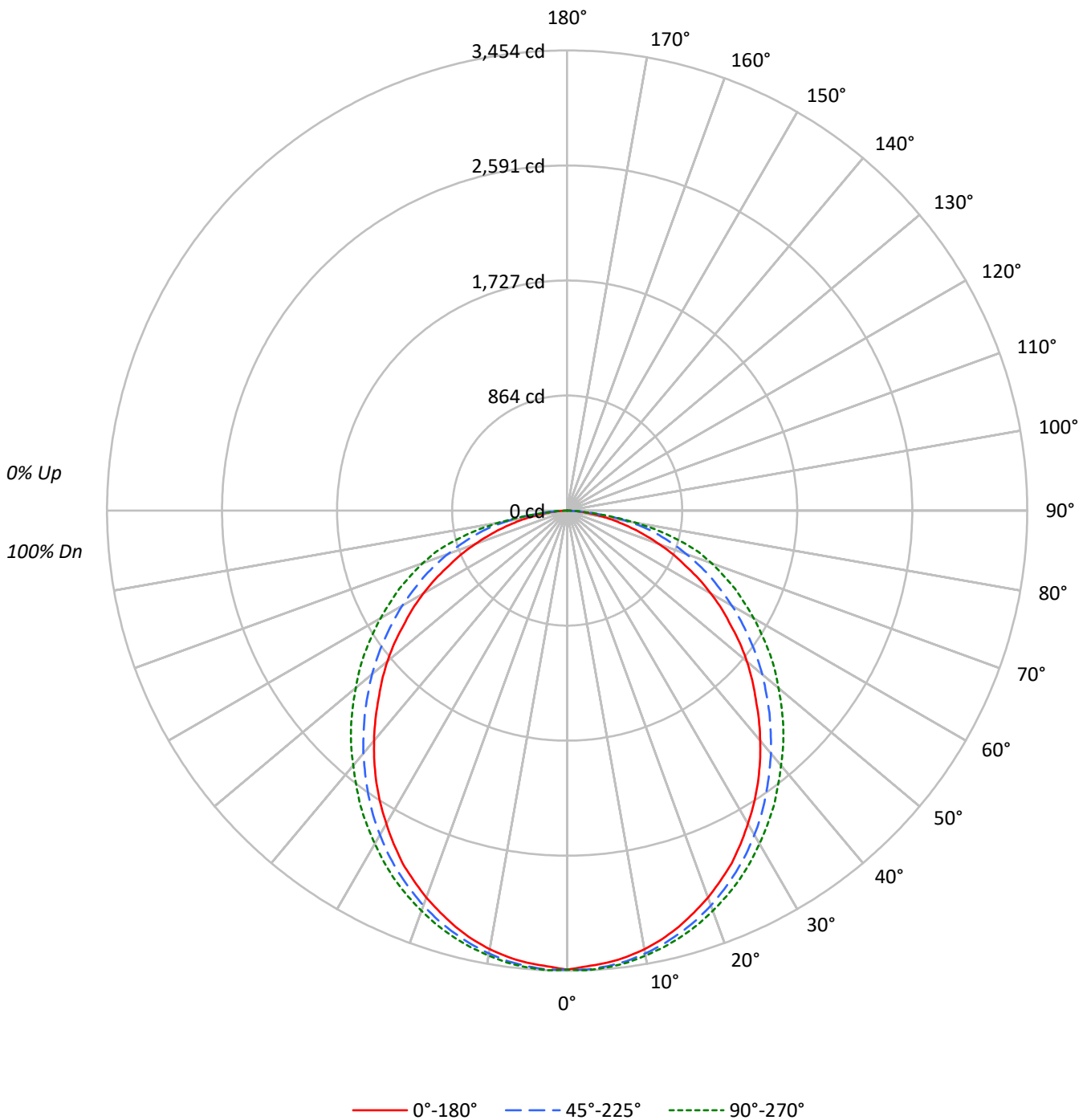
Lumens per Lamp: N/A
Luminaire Lumens: 9501.7 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	73	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	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9273	9273	9273
5°	9205	9275	9297
10°	9136	9224	9268
15°	9012	9141	9225
20°	8850	9034	9155
25°	8675	8896	9080
30°	8436	8735	8972
35°	8200	8549	8885
40°	7921	8359	8775
45°	7619	8169	8735
50°	7372	8003	8667
55°	7028	7829	8686
60°	6711	7695	8711
65°	6239	7595	8848
70°	5766	7489	9069
75°	5157	7454	9123
80°	4325	7063	7967
85°	3347	4835	4526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.5	3.4
10°-20°	924.2	9.7
20°-30°	1378.0	14.5
30°-40°	1626.7	17.1
40°-50°	1657.9	17.4
50°-60°	1495.1	15.7
60°-70°	1175.1	12.4
70°-80°	735.7	7.7
80°-90°	183.5	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°	2627.6	27.7
0°-40°	4254.3	44.8
0°-60°	7407.3	78.0
0°-90°	9501.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9501.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3446	3446	3446	3446	3446	
5°	3408	3416	3434	3442	3442	323
15°	3235	3249	3281	3305	3311	911
25°	2922	2944	2996	3042	3058	1343
35°	2496	2528	2602	2675	2705	1560
45°	2002	2046	2147	2251	2295	1549
55°	1498	1544	1669	1797	1851	1344
65°	980	1040	1193	1325	1390	977
75°	496	570	717	845	878	527
85°	108	139	157	157	147	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3445.8	3445.8	3445.8	3445.8	3445.8
2.5°	3423.7	3431.7	3447.8	3453.8	3453.8
5°	3407.6	3415.7	3433.7	3441.8	3441.8
7.5°	3381.5	3389.6	3411.6	3421.7	3423.7
10°	3343.4	3353.4	3375.5	3391.6	3391.6
12.5°	3295.2	3305.2	3333.3	3353.4	3355.4
15°	3234.9	3249.0	3281.1	3305.2	3311.2
17.5°	3164.7	3186.7	3222.9	3253.0	3259.0
20°	3090.4	3112.4	3154.6	3188.8	3196.8
22.5°	3008.0	3028.1	3078.3	3120.5	3130.5
25°	2921.7	2943.8	2996.0	3042.2	3058.2
27.5°	2819.3	2845.4	2907.6	2959.8	2975.9
30°	2714.9	2747.0	2811.2	2869.5	2887.5
32.5°	2608.4	2638.6	2710.8	2773.1	2797.2
35°	2496.0	2528.1	2602.4	2674.7	2704.8
37.5°	2377.5	2409.6	2490.0	2572.3	2600.4
40°	2255.0	2293.2	2379.5	2467.9	2498.0
42.5°	2130.5	2170.7	2261.0	2359.4	2399.6
45°	2002.0	2046.2	2146.6	2251.0	2295.2
47.5°	1885.5	1921.7	2026.1	2140.6	2182.7
50°	1761.0	1795.2	1911.6	2026.1	2070.3
52.5°	1634.5	1666.7	1791.2	1911.6	1965.9
55°	1498.0	1544.2	1668.7	1797.2	1851.4
57.5°	1377.5	1419.7	1548.2	1678.7	1730.9
60°	1247.0	1291.2	1429.7	1562.2	1618.5
62.5°	1116.5	1164.7	1305.2	1447.8	1500.0
65°	979.9	1040.2	1192.8	1325.3	1389.6
67.5°	863.5	921.7	1072.3	1210.8	1267.1
70°	732.9	801.2	951.8	1092.4	1152.6
72.5°	610.4	678.7	833.3	973.9	1034.1
75°	496.0	570.3	716.9	845.4	877.5
77.5°	385.5	455.8	602.4	676.7	710.8
80°	279.1	347.4	455.8	506.0	514.1
82.5°	188.8	247.0	309.2	323.3	315.3
85°	108.4	138.6	156.6	156.6	146.6
87.5°	44.2	44.2	38.2	24.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)