

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: P474931

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P474931
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-95VHE-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: 9692.6 lumens
Efficiency: N/A
Efficacy: 136.1 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

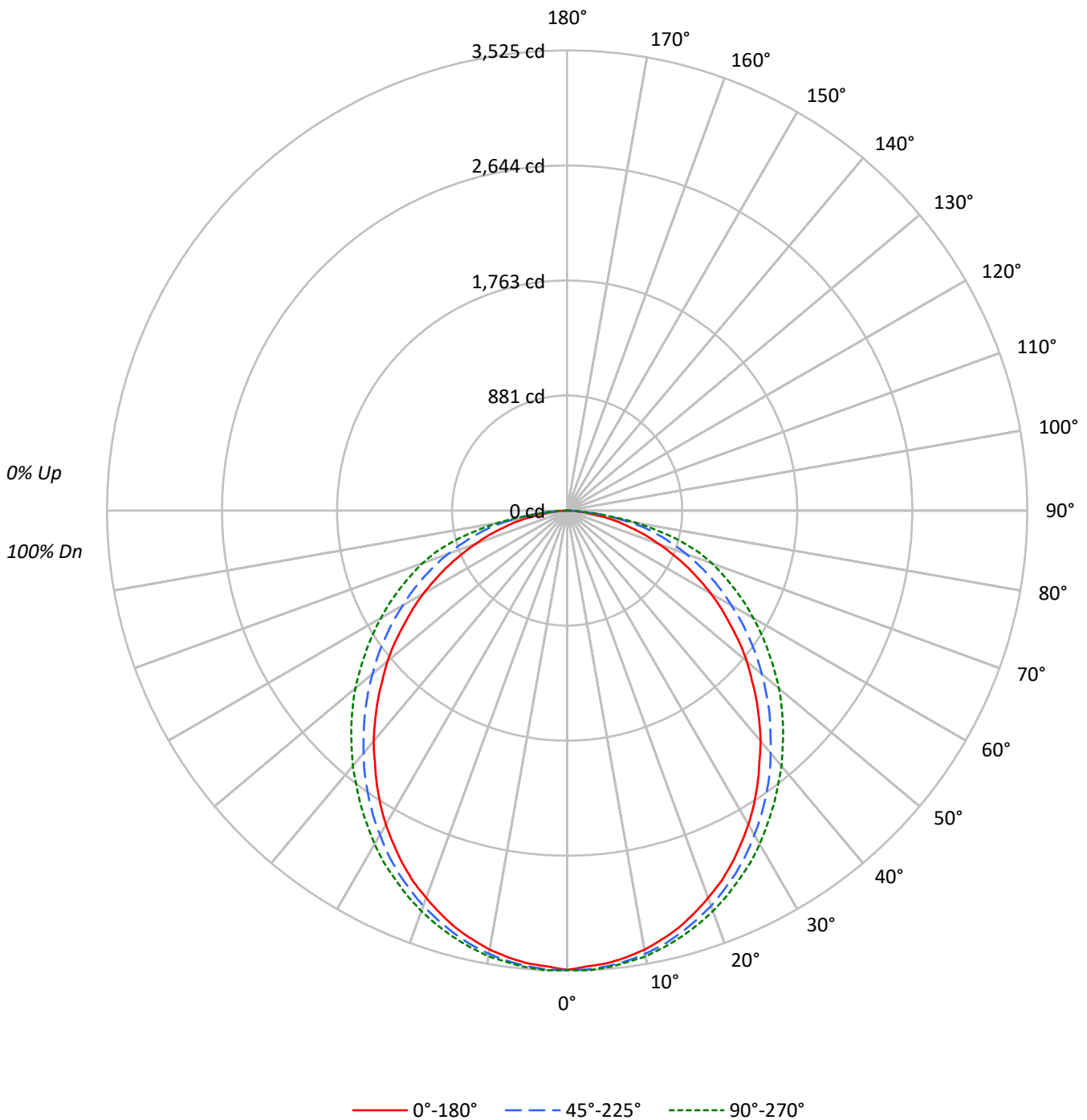
Input Watts (W): 71.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	9468	9468	9468
5°	9403	9466	9491
10°	9332	9422	9473
15°	9214	9338	9416
20°	9041	9229	9350
25°	8859	9089	9256
30°	8630	8914	9169
35°	8361	8730	9054
40°	8100	8520	8973
45°	7802	8337	8900
50°	7522	8151	8867
55°	7164	7989	8826
60°	6842	7827	8862
65°	6422	7736	8991
70°	5869	7641	9283
75°	5268	7585	9292
80°	4435	7161	8252
85°	3331	4854	4489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	3.4
10°-20°	943.8	9.7
20°-30°	1407.1	14.5
30°-40°	1660.4	17.1
40°-50°	1691.6	17.5
50°-60°	1525.6	15.7
60°-70°	1198.1	12.4
70°-80°	749.1	7.7
80°-90°	184.6	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°	2683.2	27.7
0°-40°	4343.6	44.8
0°-60°	7560.8	78.0
0°-90°	9692.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9692.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3518	3518	3518	3518	3518	
5°	3481	3488	3504	3511	3514	330
15°	3307	3319	3352	3375	3380	931
25°	2984	3000	3061	3106	3117	1373
35°	2545	2580	2658	2730	2756	1592
45°	2050	2085	2191	2296	2339	1582
55°	1527	1576	1703	1834	1881	1370
65°	1009	1063	1215	1351	1412	996
75°	507	577	730	854	894	542
85°	108	138	157	155	145	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3518.4	3518.4	3518.4	3518.4	3518.4
2.5°	3495.0	3502.0	3518.4	3525.4	3525.4
5°	3480.9	3487.9	3504.3	3511.4	3513.7
7.5°	3452.7	3462.1	3480.9	3490.3	3490.3
10°	3415.2	3426.9	3448.0	3462.1	3466.8
12.5°	3363.6	3377.7	3405.8	3422.2	3426.9
15°	3307.3	3319.0	3351.9	3375.3	3380.0
17.5°	3234.6	3253.4	3288.5	3319.0	3326.1
20°	3157.2	3178.3	3222.9	3258.0	3265.1
22.5°	3077.4	3093.9	3143.1	3185.3	3194.7
25°	2983.6	3000.0	3061.0	3105.6	3117.3
27.5°	2880.4	2908.6	2969.5	3021.1	3039.9
30°	2777.2	2805.3	2868.7	2929.7	2950.8
32.5°	2664.6	2695.1	2767.8	2831.1	2852.3
35°	2545.0	2580.2	2657.6	2730.3	2756.1
37.5°	2420.7	2460.5	2547.3	2624.7	2652.9
40°	2305.7	2333.9	2425.4	2514.5	2554.4
42.5°	2176.7	2214.3	2305.7	2406.6	2444.1
45°	2050.1	2085.2	2190.8	2296.3	2338.6
47.5°	1918.7	1963.3	2068.8	2186.1	2228.3
50°	1796.7	1834.3	1946.9	2071.2	2118.1
52.5°	1665.4	1705.3	1827.2	1956.2	1998.5
55°	1527.0	1576.2	1702.9	1834.3	1881.2
57.5°	1400.3	1447.2	1580.9	1717.0	1766.2
60°	1271.3	1318.2	1454.3	1592.7	1646.6
62.5°	1135.3	1189.2	1337.0	1470.7	1531.7
65°	1008.6	1062.6	1215.0	1351.1	1412.1
67.5°	874.9	938.2	1090.7	1233.8	1294.8
70°	745.9	821.0	971.1	1111.8	1179.8
72.5°	631.0	692.0	849.1	996.9	1053.2
75°	506.7	577.0	729.5	853.8	893.7
77.5°	401.1	462.1	607.5	689.6	715.4
80°	286.2	354.2	462.1	511.3	532.5
82.5°	190.0	246.3	314.3	323.7	319.0
85°	107.9	138.4	157.2	154.8	145.4
87.5°	42.2	46.9	35.2	21.1	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)