

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: P474792

Luminaire Tested: **22CZ2-32-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P474792  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-32-UNV-L835-CD1-U  
Description: 2'X2' TROFFER LED MODULE, RIBBED LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3271.9 lumens  
Efficiency: N/A  
Efficacy: 135.2 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

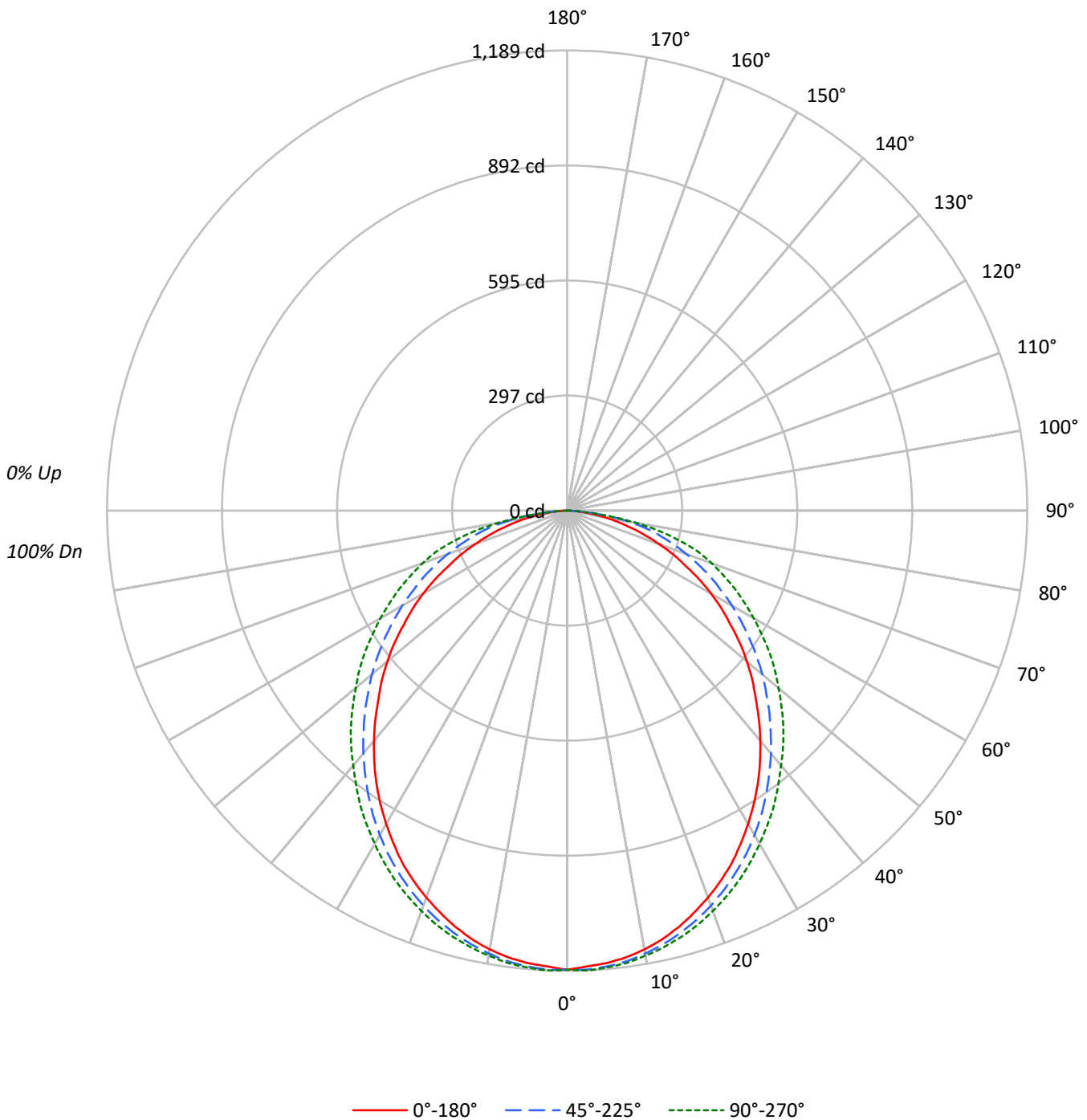
Input Watts (W): 24.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3193	3193	3193
5°	3170	3194	3202
10°	3146	3176	3191
15°	3103	3148	3176
20°	3048	3111	3152
25°	2987	3063	3127
30°	2905	3008	3090
35°	2824	2944	3060
40°	2728	2878	3022
45°	2624	2813	3008
50°	2539	2756	2984
55°	2420	2696	2991
60°	2311	2650	2999
65°	2148	2615	3047
70°	1986	2579	3123
75°	1776	2567	3142
80°	1489	2433	2743
85°	1152	1664	1559



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.1	3.4
10°-20°	318.2	9.7
20°-30°	474.5	14.5
30°-40°	560.1	17.1
40°-50°	570.9	17.4
50°-60°	514.8	15.7
60°-70°	404.7	12.4
70°-80°	253.4	7.7
80°-90°	63.2	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°	904.8	27.7
0°-40°	1465.0	44.8
0°-60°	2550.7	78.0
0°-90°	3271.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3271.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1173	1176	1182	1185	1185	111
15°	1114	1119	1130	1138	1140	314
25°	1006	1014	1032	1048	1053	463
35°	860	871	896	921	931	537
45°	689	705	739	775	790	533
55°	516	532	575	619	638	463
65°	337	358	411	456	478	336
75°	171	196	247	291	302	181
85°	37	48	54	54	50	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1186.5	1186.5	1186.5	1186.5	1186.5
2.5°	1178.9	1181.7	1187.2	1189.3	1189.3
5°	1173.4	1176.2	1182.4	1185.2	1185.2
7.5°	1164.4	1167.2	1174.8	1178.3	1178.9
10°	1151.3	1154.7	1162.3	1167.9	1167.9
12.5°	1134.7	1138.1	1147.8	1154.7	1155.4
15°	1113.9	1118.8	1129.8	1138.1	1140.2
17.5°	1089.7	1097.4	1109.8	1120.2	1122.2
20°	1064.2	1071.8	1086.3	1098.0	1100.8
22.5°	1035.8	1042.7	1060.0	1074.5	1078.0
25°	1006.1	1013.7	1031.7	1047.6	1053.1
27.5°	970.8	979.8	1001.2	1019.2	1024.7
30°	934.9	945.9	968.0	988.1	994.3
32.5°	898.2	908.6	933.5	954.9	963.2
35°	859.5	870.6	896.1	921.0	931.4
37.5°	818.7	829.8	857.4	885.8	895.4
40°	776.5	789.7	819.4	849.8	860.2
42.5°	733.6	747.5	778.6	812.5	826.3
45°	689.4	704.6	739.2	775.1	790.3
47.5°	649.3	661.7	697.7	737.1	751.6
50°	606.4	618.2	658.3	697.7	712.9
52.5°	562.9	573.9	616.8	658.3	676.9
55°	515.8	531.7	574.6	618.9	637.5
57.5°	474.3	488.9	533.1	578.1	596.0
60°	429.4	444.6	492.3	538.0	557.3
62.5°	384.5	401.0	449.5	498.5	516.5
65°	337.4	358.2	410.7	456.4	478.5
67.5°	297.3	317.4	369.2	417.0	436.3
70°	252.4	275.9	327.8	376.2	396.9
72.5°	210.2	233.7	287.0	335.4	356.1
75°	170.8	196.4	246.9	291.1	302.2
77.5°	132.8	157.0	207.4	233.0	244.8
80°	96.1	119.6	157.0	174.2	177.0
82.5°	65.0	85.0	106.5	111.3	108.6
85°	37.3	47.7	53.9	53.9	50.5
87.5°	15.2	15.2	13.1	8.3	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)