

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: P474914

Luminaire Tested: **22CZ2-34HE-S-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P474914  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-34HE-S-UNV-L835-CD1-U  
Description: 2'X2' TROFFER LED MODULE, HIGH EFFICIENCY,SMOOTH LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3494.7 lumens  
Efficiency: N/A  
Efficacy: 143.8 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

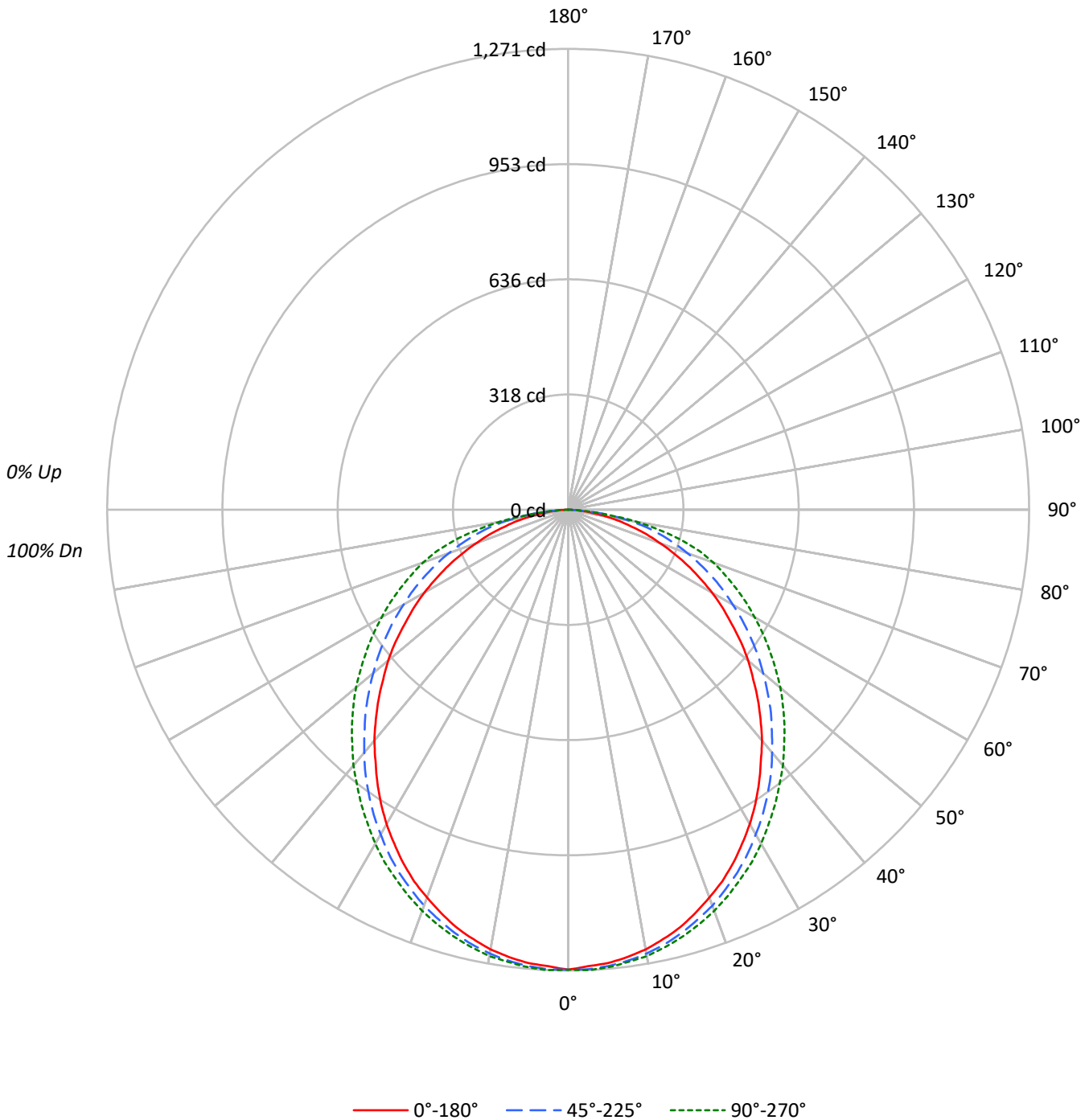
Input Watts (W): 24.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3414	3414	3414
5°	3390	3413	3422
10°	3365	3397	3416
15°	3322	3367	3395
20°	3260	3328	3371
25°	3194	3277	3337
30°	3111	3214	3306
35°	3014	3148	3264
40°	2920	3072	3235
45°	2813	3006	3209
50°	2712	2938	3197
55°	2583	2881	3182
60°	2467	2822	3195
65°	2316	2790	3242
70°	2116	2755	3347
75°	1900	2734	3350
80°	1599	2582	2975
85°	1201	1751	1618



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.8	3.4
10°-20°	340.3	9.7
20°-30°	507.3	14.5
30°-40°	598.7	17.1
40°-50°	609.9	17.5
50°-60°	550.1	15.7
60°-70°	432.0	12.4
70°-80°	270.1	7.7
80°-90°	66.6	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°	967.4	27.7
0°-40°	1566.1	44.8
0°-60°	2726.1	78.0
0°-90°	3494.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3494.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1255	1258	1264	1266	1267	119
15°	1192	1197	1208	1217	1219	336
25°	1076	1082	1104	1120	1124	495
35°	918	930	958	984	994	574
45°	739	752	790	828	843	570
55°	551	568	614	661	678	494
65°	364	383	438	487	509	359
75°	183	208	263	308	322	195
85°	39	50	57	56	52	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1268.6	1268.6	1268.6	1268.6	1268.6
2.5°	1260.1	1262.7	1268.6	1271.1	1271.1
5°	1255.1	1257.6	1263.5	1266.0	1266.9
7.5°	1244.9	1248.3	1255.1	1258.4	1258.4
10°	1231.4	1235.6	1243.2	1248.3	1250.0
12.5°	1212.8	1217.8	1228.0	1233.9	1235.6
15°	1192.5	1196.7	1208.5	1217.0	1218.7
17.5°	1166.2	1173.0	1185.7	1196.7	1199.2
20°	1138.3	1146.0	1162.0	1174.7	1177.2
22.5°	1109.6	1115.5	1133.3	1148.5	1151.9
25°	1075.8	1081.7	1103.7	1119.7	1124.0
27.5°	1038.5	1048.7	1070.7	1089.3	1096.1
30°	1001.3	1011.5	1034.3	1056.3	1063.9
32.5°	960.7	971.7	998.0	1020.8	1028.4
35°	917.6	930.3	958.2	984.4	993.7
37.5°	872.8	887.2	918.5	946.4	956.5
40°	831.3	841.5	874.5	906.6	921.0
42.5°	784.8	798.4	831.3	867.7	881.2
45°	739.2	751.8	789.9	828.0	843.2
47.5°	691.8	707.9	745.9	788.2	803.4
50°	647.8	661.4	701.9	746.8	763.7
52.5°	600.5	614.8	658.8	705.3	720.6
55°	550.6	568.3	614.0	661.4	678.3
57.5°	504.9	521.8	570.0	619.1	636.8
60°	458.4	475.3	524.3	574.2	593.7
62.5°	409.3	428.8	482.1	530.3	552.3
65°	363.7	383.1	438.1	487.1	509.1
67.5°	315.5	338.3	393.3	444.8	466.8
70°	268.9	296.0	350.1	400.9	425.4
72.5°	227.5	249.5	306.2	359.4	379.7
75°	182.7	208.0	263.0	307.8	322.2
77.5°	144.6	166.6	219.0	248.6	257.9
80°	103.2	127.7	166.6	184.4	192.0
82.5°	68.5	88.8	113.3	116.7	115.0
85°	38.9	49.9	56.7	55.8	52.4
87.5°	15.2	16.9	12.7	7.6	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)