

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: P225621

Luminaire Tested: **22AC-LD5-27-RDP-UNV-L835-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P225621  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35766)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22AC-LD5-27-RDP-UNV-L835-CD1-U  
Description: METALUX Accord 2X2 LED TROFFER WITH RDP LENS  
Light Source: (84)3500K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2112.6 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

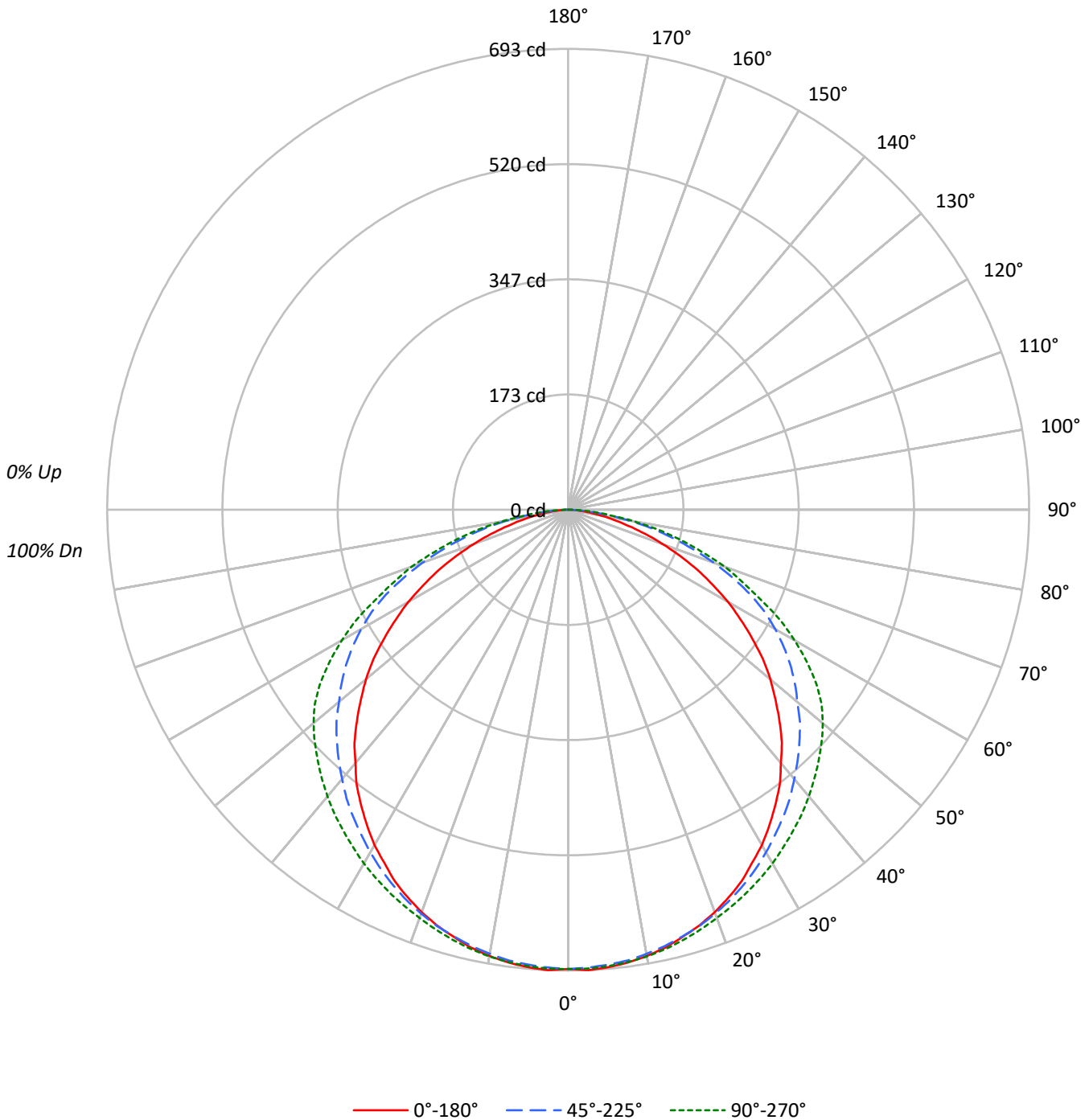
Input Watts (W): 22.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	1859	1859	1859
5°	1866	1855	1862
10°	1862	1853	1864
15°	1853	1850	1866
20°	1844	1851	1871
25°	1831	1849	1887
30°	1810	1848	1909
35°	1782	1852	1936
40°	1747	1857	1977
45°	1709	1872	2026
50°	1661	1883	2092
55°	1584	1913	2136
60°	1493	1934	2115
65°	1365	1926	2025
70°	1190	1834	1969
75°	973	1670	1808
80°	761	1413	1547
85°	531	939	1108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.5	3.1
10°-20°	188.1	8.9
20°-30°	287.9	13.6
30°-40°	353.8	16.7
40°-50°	379.4	18.0
50°-60°	359.6	17.0
60°-70°	281.1	13.3
70°-80°	159.9	7.6
80°-90°	37.4	1.8
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°	541.5	25.6
0°-40°	895.3	42.4
0°-60°	1634.3	77.4
0°-90°	2112.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2112.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	691	691	691	691	691	
5°	691	689	687	688	689	66
15°	665	664	664	667	670	188
25°	617	618	623	632	635	284
35°	543	549	564	582	589	339
45°	449	462	492	522	532	346
55°	338	367	408	444	455	302
65°	214	253	302	315	318	212
75°	94	140	161	172	174	102
85°	17	25	30	35	36	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	690.7	690.7	690.7	690.7	690.7
2.5°	693.1	690.7	689.2	689.9	690.7
5°	690.7	689.2	686.8	688.4	689.2
7.5°	686.8	685.3	683.7	685.3	686.0
10°	681.4	679.8	678.3	680.6	682.2
12.5°	674.4	672.8	672.0	675.1	676.7
15°	665.0	664.2	664.2	667.3	669.7
17.5°	655.6	654.9	656.4	660.3	661.9
20°	644.0	644.0	646.3	651.0	653.3
22.5°	630.7	631.5	635.4	641.6	644.7
25°	616.7	618.2	622.9	631.5	635.4
27.5°	598.7	601.9	609.6	619.8	625.2
30°	582.4	585.5	594.8	608.1	614.3
32.5°	562.9	568.3	579.2	594.8	601.9
35°	542.6	548.8	563.7	581.6	589.4
37.5°	522.3	528.6	547.3	567.5	576.9
40°	497.4	508.3	528.6	552.7	562.9
42.5°	475.6	485.7	510.6	537.1	548.1
45°	449.1	462.3	491.9	521.6	532.5
47.5°	422.5	438.9	472.4	504.4	516.9
50°	396.8	414.0	449.8	485.7	499.7
52.5°	368.8	389.8	429.6	467.0	480.2
55°	337.6	367.2	407.7	444.4	455.3
57.5°	307.2	338.3	384.3	419.4	424.9
60°	277.5	309.5	359.4	386.7	392.9
62.5°	244.8	281.4	332.9	354.7	359.4
65°	214.4	253.4	302.5	315.0	318.1
67.5°	182.4	223.7	267.4	279.9	283.0
70°	151.2	195.7	233.1	244.0	250.3
72.5°	121.6	166.8	195.7	207.4	210.5
75°	93.6	139.5	160.6	172.3	173.9
77.5°	70.9	109.1	127.1	136.4	138.0
80°	49.1	75.6	91.2	98.2	99.8
82.5°	31.2	48.3	58.5	63.9	63.9
85°	17.2	24.9	30.4	35.1	35.9
87.5°	6.2	7.8	10.1	15.6	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)