

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: P225615

Luminaire Tested: **22AC-LD5-27-RDP-UNV-L830-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: P225615  
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-L830-CD1-U  
Description: METALUX Accord 2X2 LED TROFFER WITH RDP LENS  
Light Source: (84)3000K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2032.0 lumens  
Efficiency: N/A  
Efficacy: 90.7 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

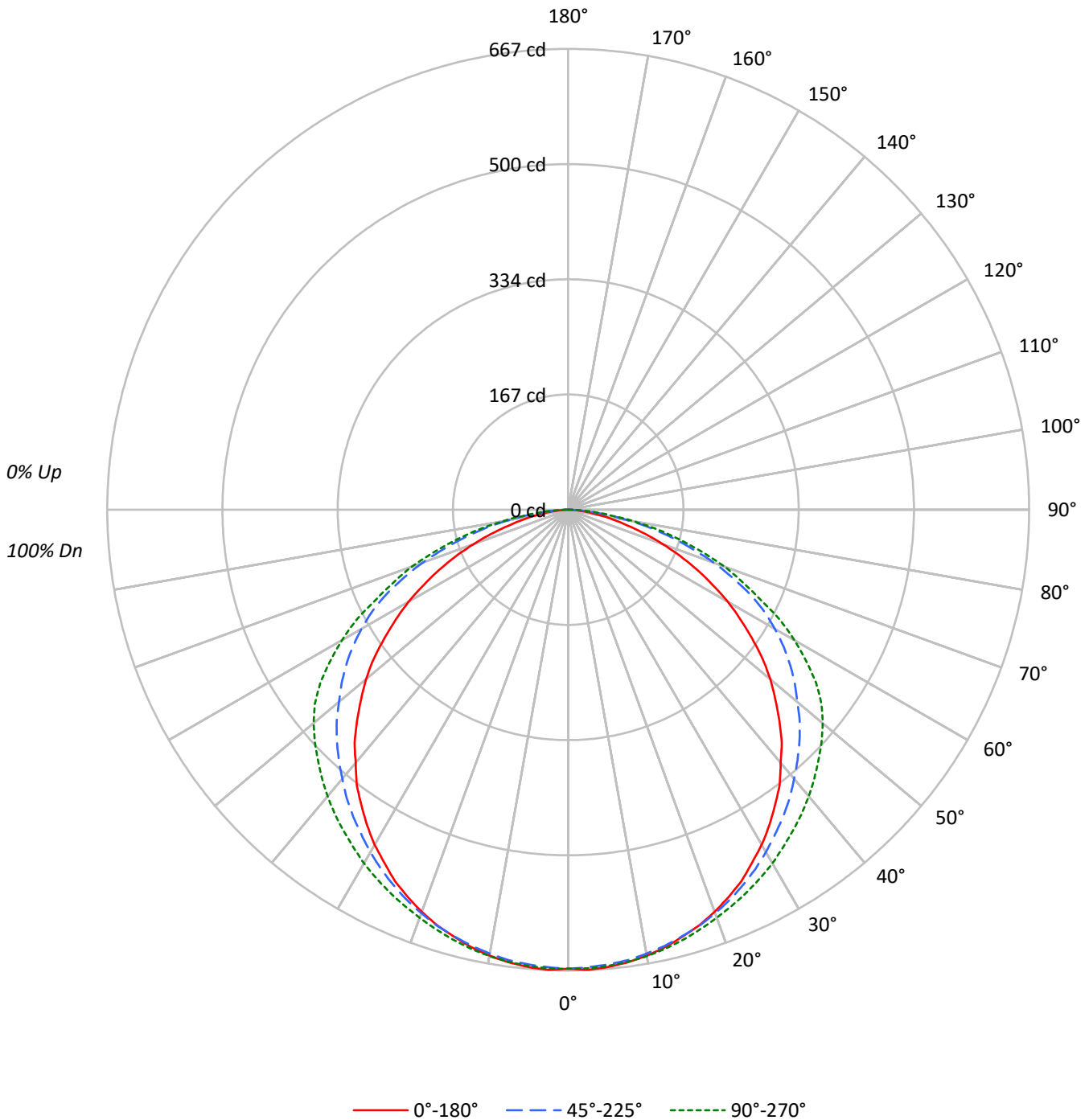
Input Watts (W): 22.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1788	1788	1788
5°	1795	1784	1791
10°	1791	1783	1793
15°	1782	1780	1794
20°	1774	1780	1800
25°	1761	1779	1814
30°	1740	1778	1836
35°	1714	1781	1862
40°	1681	1786	1902
45°	1644	1801	1949
50°	1598	1811	2012
55°	1523	1840	2054
60°	1437	1861	2034
65°	1313	1852	1948
70°	1145	1764	1894
75°	936	1606	1738
80°	731	1359	1488
85°	509	902	1065



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.0	3.1
10°-20°	180.9	8.9
20°-30°	276.9	13.6
30°-40°	340.3	16.7
40°-50°	365.0	18.0
50°-60°	345.9	17.0
60°-70°	270.4	13.3
70°-80°	153.8	7.6
80°-90°	36.0	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°	520.8	25.6
0°-40°	861.1	42.4
0°-60°	1572.0	77.4
0°-90°	2032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2032.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	664	663	661	662	663	63
15°	640	639	639	642	644	181
25°	593	595	599	607	611	273
35°	522	528	542	559	567	326
45°	432	445	473	502	512	333
55°	325	353	392	427	438	290
65°	206	244	291	303	306	204
75°	90	134	154	166	167	98
85°	16	24	29	34	34	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	664.4	664.4	664.4	664.4	664.4
2.5°	666.6	664.4	662.9	663.6	664.4
5°	664.4	662.9	660.6	662.1	662.9
7.5°	660.6	659.1	657.6	659.1	659.9
10°	655.4	653.9	652.4	654.6	656.1
12.5°	648.6	647.1	646.4	649.4	650.9
15°	639.6	638.9	638.9	641.9	644.1
17.5°	630.6	629.9	631.4	635.1	636.6
20°	619.4	619.4	621.6	626.1	628.4
22.5°	606.6	607.4	611.1	617.1	620.1
25°	593.1	594.6	599.1	607.4	611.1
27.5°	575.9	578.9	586.4	596.1	601.4
30°	560.1	563.1	572.1	584.9	590.9
32.5°	541.4	546.7	557.2	572.1	578.9
35°	521.9	527.9	542.2	559.4	566.9
37.5°	502.4	508.4	526.4	545.9	554.9
40°	478.4	488.9	508.4	531.7	541.4
42.5°	457.4	467.2	491.2	516.7	527.2
45°	431.9	444.7	473.2	501.7	512.2
47.5°	406.4	422.2	454.4	485.2	497.2
50°	381.7	398.2	432.7	467.2	480.7
52.5°	354.7	374.9	413.2	449.2	461.9
55°	324.7	353.2	392.2	427.4	437.9
57.5°	295.4	325.4	369.7	403.4	408.7
60°	267.0	297.7	345.7	371.9	377.9
62.5°	235.5	270.7	320.2	341.2	345.7
65°	206.2	243.7	290.9	302.9	305.9
67.5°	175.5	215.2	257.2	269.2	272.2
70°	145.5	188.2	224.2	234.7	240.7
72.5°	117.0	160.5	188.2	199.5	202.5
75°	90.0	134.2	154.5	165.7	167.2
77.5°	68.2	105.0	122.2	131.2	132.7
80°	47.2	72.7	87.7	94.5	96.0
82.5°	30.0	46.5	56.2	61.5	61.5
85°	16.5	24.0	29.2	33.7	34.5
87.5°	6.0	7.5	9.7	15.0	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)