

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: P225577

Luminaire Tested: **22AC-LD5-20-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: P225577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35761)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22AC-LD5-20-UNV-L830-CD1-U
Description: METALUX Accord 2X2 LED TROFFER
Light Source: (84)3000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1996.8 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

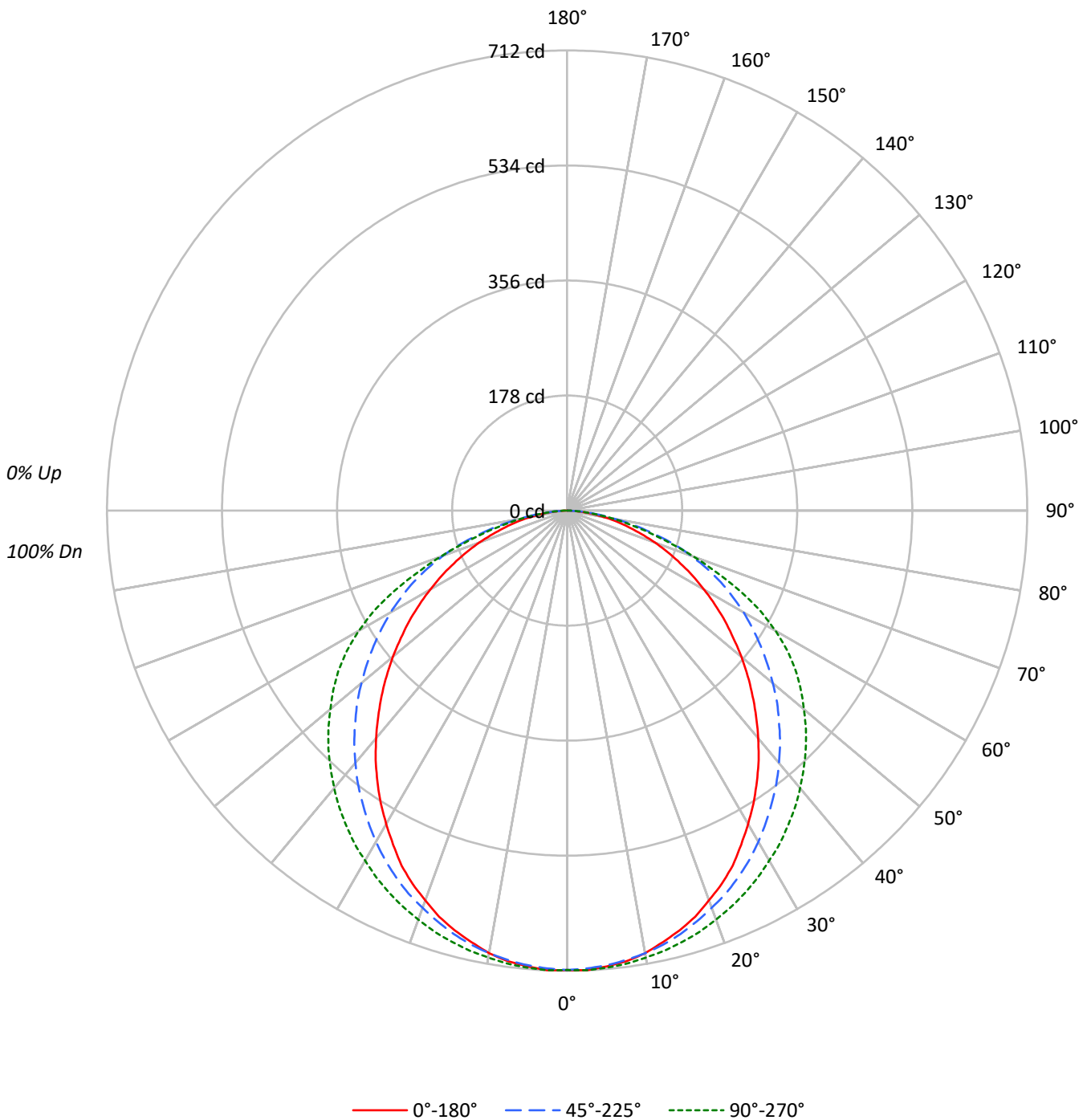
Input Watts (W): 16.73
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	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	44	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	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1913	1913	1913
5°	1912	1907	1918
10°	1900	1900	1919
15°	1873	1889	1924
20°	1837	1873	1928
25°	1799	1859	1936
30°	1740	1838	1943
35°	1681	1814	1956
40°	1615	1791	1970
45°	1545	1765	1988
50°	1474	1740	2002
55°	1399	1715	2026
60°	1315	1698	2004
65°	1231	1672	1887
70°	1135	1604	1642
75°	1020	1440	1360
80°	880	1193	1103
85°	682	803	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	3.4
10°-20°	191.8	9.6
20°-30°	289.0	14.5
30°-40°	346.1	17.3
40°-50°	357.9	17.9
50°-60°	326.9	16.4
60°-70°	250.1	12.5
70°-80°	136.0	6.8
80°-90°	31.8	1.6
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°	548.0	27.4
0°-40°	894.1	44.8
0°-60°	1578.9	79.1
0°-90°	1996.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1996.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	708	707	706	708	710	67
15°	672	673	678	686	691	189
25°	606	611	626	644	652	278
35°	512	523	552	582	595	320
45°	406	422	464	505	522	313
55°	298	321	366	414	432	266
65°	193	216	263	292	296	192
75°	98	121	138	136	131	105
85°	22	25	26	25	25	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.9	710.9	710.9	710.9	710.9
2.5°	711.8	709.9	709.0	710.9	711.8
5°	708.0	707.0	706.1	708.0	709.9
7.5°	703.2	701.3	701.3	705.1	707.0
10°	695.5	693.6	695.5	700.3	702.2
12.5°	683.9	684.9	687.8	694.5	697.4
15°	672.4	673.4	678.2	685.9	690.7
17.5°	658.9	660.9	666.6	678.2	683.0
20°	641.6	644.5	654.1	667.6	673.4
22.5°	625.3	628.2	641.6	657.0	663.7
25°	606.0	610.8	626.2	643.5	652.2
27.5°	582.9	591.6	609.9	630.1	639.7
30°	559.9	569.5	591.6	615.6	625.3
32.5°	536.8	546.4	572.4	600.3	611.8
35°	511.8	523.3	552.2	582.0	595.4
37.5°	486.7	500.2	532.0	564.7	579.1
40°	459.8	475.2	509.8	546.4	560.8
42.5°	432.9	447.3	487.7	525.2	541.6
45°	405.9	422.3	463.7	505.0	522.3
47.5°	379.0	396.3	440.6	482.9	501.2
50°	352.1	371.3	415.6	460.8	478.1
52.5°	324.2	344.4	390.6	437.7	456.0
55°	298.2	321.3	365.5	413.6	431.9
57.5°	271.3	294.4	340.5	388.6	404.0
60°	244.3	265.5	315.5	359.8	372.3
62.5°	219.3	240.5	288.6	328.0	337.6
65°	193.4	215.5	262.6	292.4	296.3
67.5°	168.3	190.5	233.8	255.9	251.1
70°	144.3	166.4	203.9	211.6	208.7
72.5°	120.2	143.3	174.1	173.2	166.4
75°	98.1	121.2	138.5	135.6	130.8
77.5°	78.9	97.2	107.7	102.9	99.1
80°	56.8	74.1	77.0	73.1	71.2
82.5°	39.4	48.1	50.0	48.1	46.2
85°	22.1	25.0	26.0	25.0	25.0
87.5°	6.7	6.7	8.7	10.6	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)