

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: P225600

Luminaire Tested: **22AC-LD5-44-SQP-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: P225600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35765)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22AC-LD5-44-SQP-UNV-L830-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH SQP 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: 3114.2 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

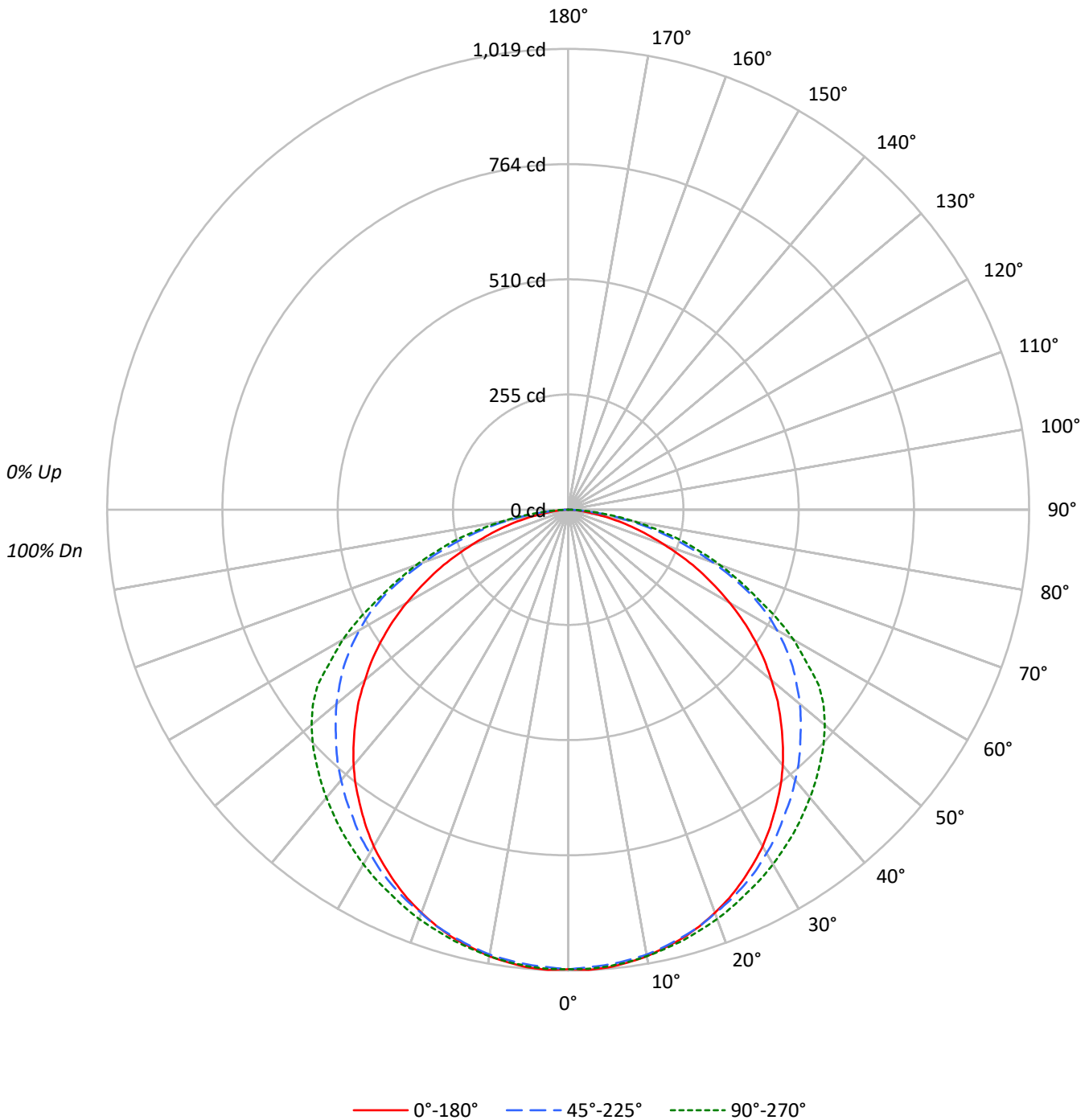
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91		93	90	88		90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		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	53	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	35		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°	2735	2735	2735
5°	2745	2728	2738
10°	2740	2729	2740
15°	2731	2725	2745
20°	2716	2719	2758
25°	2695	2725	2776
30°	2671	2725	2813
35°	2630	2727	2861
40°	2592	2743	2921
45°	2531	2761	3000
50°	2454	2800	3099
55°	2364	2843	3172
60°	2221	2870	3096
65°	2039	2847	2925
70°	1773	2675	2810
75°	1511	2408	2651
80°	1145	2061	2290
85°	760	1368	1596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	3.1
10°-20°	276.9	8.9
20°-30°	424.1	13.6
30°-40°	522.1	16.8
40°-50°	561.2	18.0
50°-60°	532.8	17.1
60°-70°	412.8	13.3
70°-80°	233.0	7.5
80°-90°	55.0	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°	797.3	25.6
0°-40°	1319.4	42.4
0°-60°	2413.3	77.5
0°-90°	3114.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3114.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1016	1012	1010	1011	1014	97
15°	980	979	978	983	985	277
25°	908	910	918	929	935	418
35°	801	810	830	858	871	501
45°	665	685	726	771	788	513
55°	504	544	606	658	676	449
65°	320	374	447	456	459	316
75°	145	206	232	246	255	154
85°	25	36	44	50	52	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.2	1016.2	1016.2	1016.2	1016.2
2.5°	1018.6	1016.2	1012.5	1014.9	1016.2
5°	1016.2	1012.5	1010.0	1011.2	1013.7
7.5°	1010.0	1007.5	1005.1	1007.5	1008.8
10°	1002.6	1000.1	998.9	1001.4	1002.6
12.5°	991.5	990.3	989.1	992.8	994.0
15°	980.4	979.2	978.0	982.9	985.4
17.5°	965.7	964.4	965.7	970.6	974.3
20°	948.4	948.4	949.6	958.3	963.2
22.5°	929.9	931.2	934.9	943.5	949.6
25°	907.8	910.2	917.6	928.7	934.9
27.5°	884.4	888.1	899.1	912.7	921.3
30°	859.7	864.7	877.0	895.5	905.3
32.5°	831.4	837.6	856.0	878.2	888.1
35°	800.6	810.5	830.2	858.5	870.8
37.5°	771.0	780.9	806.8	837.6	851.1
40°	737.8	750.1	780.9	815.4	831.4
42.5°	702.1	718.1	755.0	794.5	810.5
45°	665.1	684.8	725.5	771.0	788.3
47.5°	628.2	649.1	697.1	746.4	766.1
50°	586.3	613.4	668.8	719.3	740.3
52.5°	546.9	577.7	636.8	689.8	711.9
55°	503.8	544.4	606.0	657.7	676.2
57.5°	459.4	505.0	570.3	617.1	622.0
60°	412.6	460.7	533.3	566.6	575.2
62.5°	365.8	418.8	493.9	518.5	519.8
65°	320.2	374.4	447.1	455.7	459.4
67.5°	273.4	333.8	394.1	400.3	407.7
70°	225.4	291.9	340.0	352.3	357.2
72.5°	183.5	248.8	284.5	299.3	304.2
75°	145.3	205.7	231.6	246.3	255.0
77.5°	107.2	158.9	182.3	194.6	198.3
80°	73.9	112.1	133.0	142.9	147.8
82.5°	46.8	71.4	85.0	94.8	97.3
85°	24.6	35.7	44.3	50.5	51.7
87.5°	9.9	11.1	14.8	24.6	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)