

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: P225618

Luminaire Tested: **22AC-LD5-44-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: P225618
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-LD5-44-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: 3338.4 lumens
Efficiency: N/A
Efficacy: 78.9 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

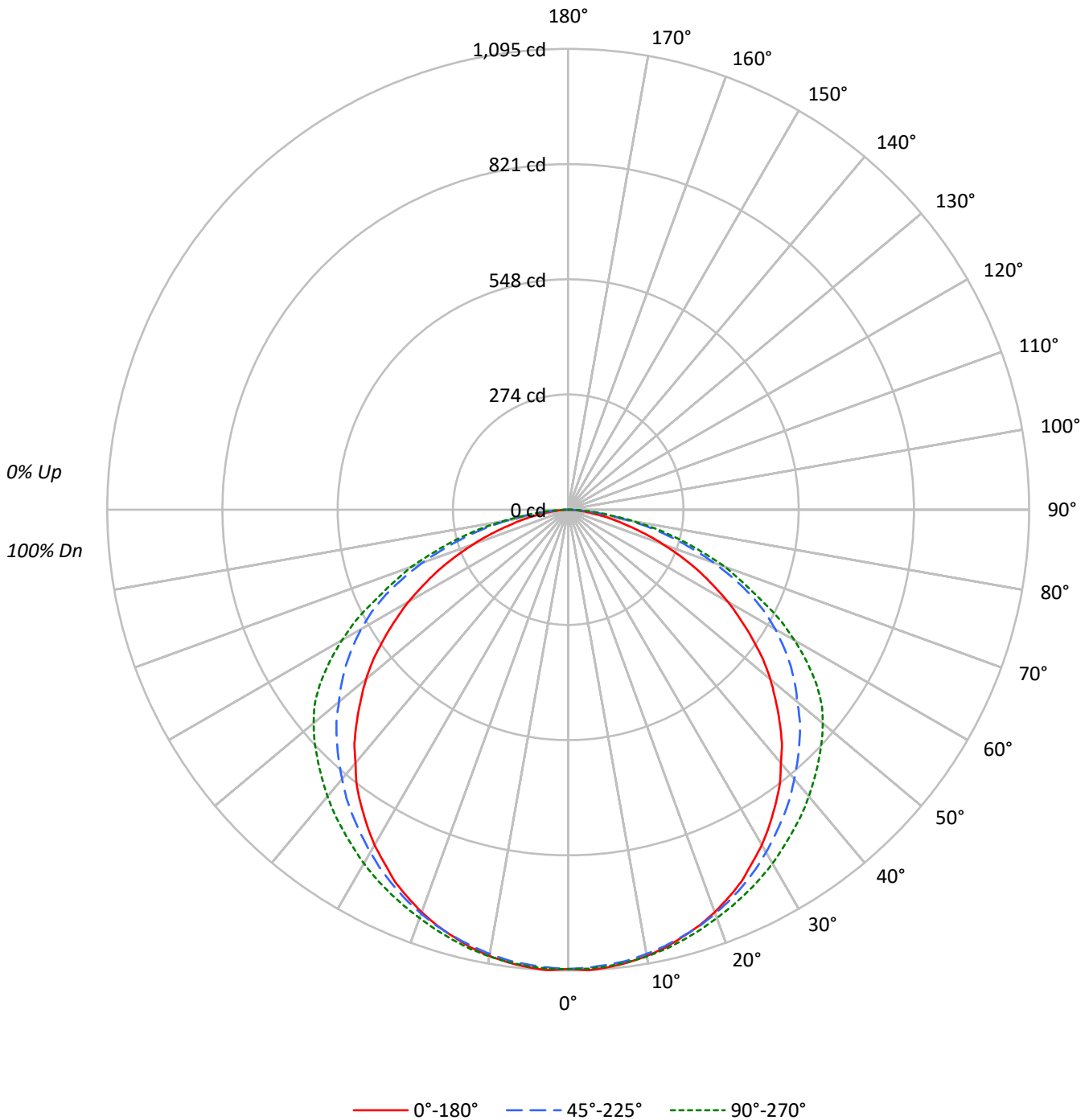
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225618

CATALOG NUMBER: 22AC-LD5-44-RDP-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225618

CATALOG NUMBER: 22AC-LD5-44-RDP-UNV-L830-CD1-U

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°	2937	2937	2937
5°	2948	2932	2942
10°	2942	2929	2945
15°	2927	2924	2948
20°	2914	2925	2956
25°	2893	2923	2981
30°	2859	2921	3017
35°	2817	2926	3059
40°	2761	2934	3124
45°	2700	2958	3202
50°	2625	2976	3306
55°	2502	3023	3375
60°	2361	3056	3342
65°	2157	3044	3200
70°	1880	2898	3111
75°	1537	2639	2856
80°	1203	2233	2444
85°	837	1482	1751



TEST NUMBER: P225618

CATALOG NUMBER: 22AC-LD5-44-RDP-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	3.1
10°-20°	297.2	8.9
20°-30°	455.0	13.6
30°-40°	559.0	16.7
40°-50°	599.5	18.0
50°-60°	568.3	17.0
60°-70°	444.2	13.3
70°-80°	252.6	7.6
80°-90°	59.1	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°	855.7	25.6
0°-40°	1414.7	42.4
0°-60°	2582.5	77.4
0°-90°	3338.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3338.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1092	1089	1085	1088	1089	104
15°	1051	1050	1050	1054	1058	297
25°	974	977	984	998	1004	448
35°	857	867	891	919	931	536
45°	710	730	777	824	841	547
55°	533	580	644	702	719	477
65°	339	400	478	498	503	334
75°	148	220	254	272	275	161
85°	27	39	48	55	57	34
90°	0	0	0	0	0	



TEST NUMBER: P225618

CATALOG NUMBER: 22AC-LD5-44-RDP-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091.5	1091.5	1091.5	1091.5	1091.5
2.5°	1095.2	1091.5	1089.0	1090.3	1091.5
5°	1091.5	1089.0	1085.3	1087.8	1089.0
7.5°	1085.3	1082.9	1080.4	1082.9	1084.1
10°	1076.7	1074.2	1071.8	1075.5	1077.9
12.5°	1065.6	1063.1	1061.9	1066.8	1069.3
15°	1050.8	1049.6	1049.6	1054.5	1058.2
17.5°	1036.0	1034.8	1037.3	1043.4	1045.9
20°	1017.6	1017.6	1021.3	1028.7	1032.4
22.5°	996.6	997.9	1004.0	1013.9	1018.8
25°	974.5	976.9	984.3	997.9	1004.0
27.5°	946.1	951.0	963.4	979.4	988.0
30°	920.2	925.2	940.0	960.9	970.8
32.5°	889.4	898.1	915.3	940.0	951.0
35°	857.4	867.3	890.7	919.0	931.3
37.5°	825.4	835.2	864.8	896.8	911.6
40°	786.0	803.2	835.2	873.4	889.4
42.5°	751.5	767.5	806.9	848.8	866.0
45°	709.6	730.5	777.3	824.2	841.4
47.5°	667.7	693.6	746.5	797.1	816.8
50°	627.0	654.2	710.8	767.5	789.7
52.5°	582.7	616.0	678.8	737.9	758.9
55°	533.4	580.2	644.3	702.2	719.4
57.5°	485.4	534.7	607.3	662.8	671.4
60°	438.6	489.1	567.9	611.0	620.9
62.5°	386.8	444.7	526.0	560.5	567.9
65°	338.8	400.4	478.0	497.7	502.6
67.5°	288.3	353.6	422.5	442.3	447.2
70°	239.0	309.2	368.3	385.6	395.4
72.5°	192.2	263.6	309.2	327.7	332.6
75°	147.8	220.5	253.8	272.3	274.7
77.5°	112.1	172.5	200.8	215.6	218.1
80°	77.6	119.5	144.1	155.2	157.7
82.5°	49.3	76.4	92.4	101.0	101.0
85°	27.1	39.4	48.0	55.4	56.7
87.5°	9.9	12.3	16.0	24.6	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)