

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: P225629

Luminaire Tested: **22AC-LD5-38-RDP-UNV-L840-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: P225629
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-LD5-38-RDP-UNV-L840-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH RDP LENS
Light Source: (84)4000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3052.1 lumens
Efficiency: N/A
Efficacy: 89.0 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

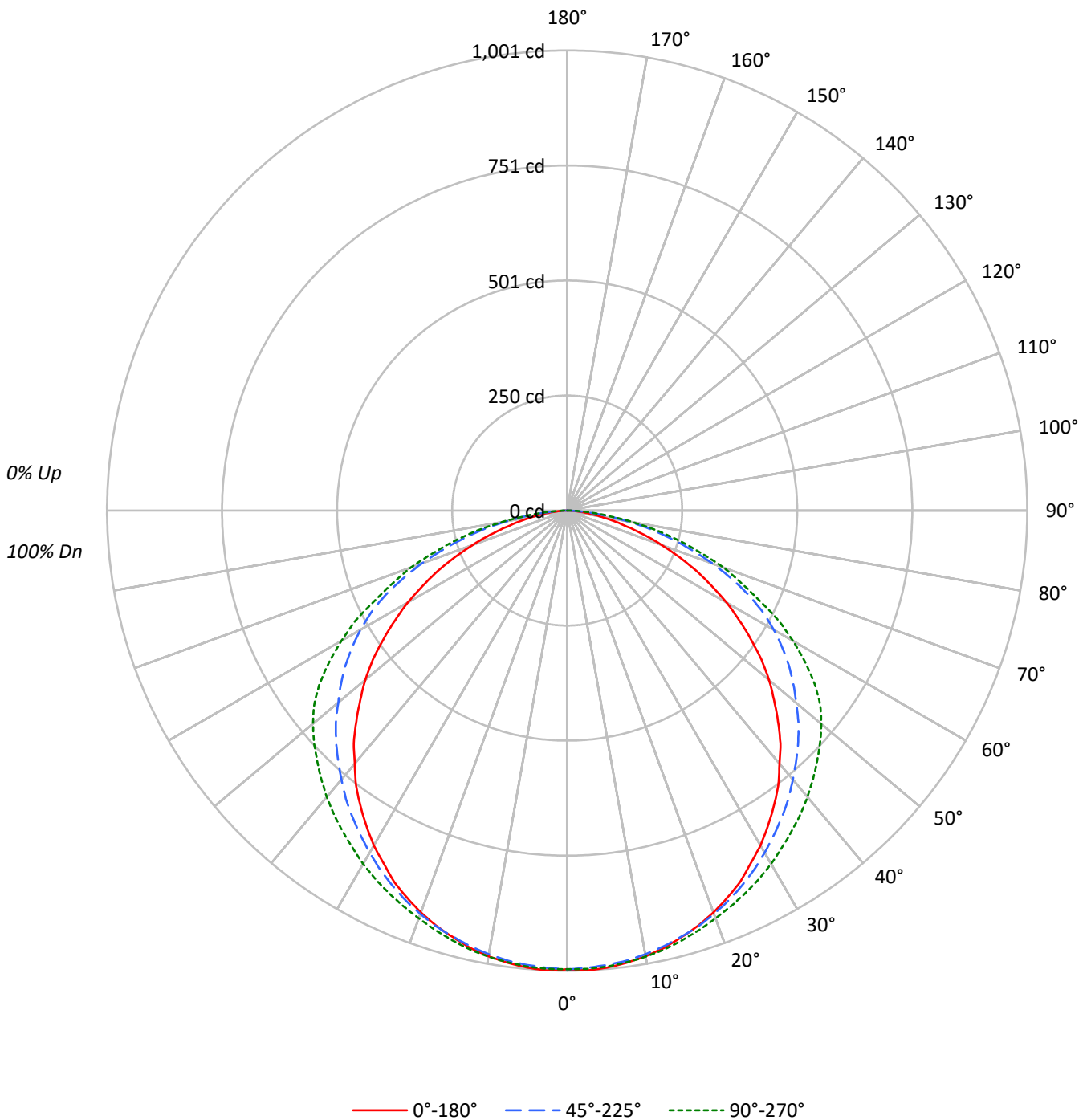
Input Watts (W): 34.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		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°	2685	2685	2685
5°	2696	2680	2689
10°	2690	2678	2693
15°	2676	2673	2695
20°	2664	2674	2703
25°	2645	2672	2725
30°	2614	2670	2758
35°	2575	2675	2797
40°	2524	2682	2857
45°	2469	2705	2927
50°	2400	2721	3022
55°	2288	2763	3086
60°	2158	2794	3055
65°	1972	2783	2926
70°	1719	2650	2844
75°	1406	2412	2612
80°	1100	2042	2235
85°	766	1355	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	3.1
10°-20°	271.8	8.9
20°-30°	415.9	13.6
30°-40°	511.1	16.7
40°-50°	548.1	18.0
50°-60°	519.5	17.0
60°-70°	406.1	13.3
70°-80°	231.0	7.6
80°-90°	54.0	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°	782.3	25.6
0°-40°	1293.4	42.4
0°-60°	2361.0	77.4
0°-90°	3052.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3052.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	998	996	992	994	996	95
15°	961	960	960	964	968	271
25°	891	893	900	912	918	410
35°	784	793	814	840	852	490
45°	649	668	711	754	769	500
55°	488	530	589	642	658	436
65°	310	366	437	455	460	306
75°	135	202	232	249	251	147
85°	25	36	44	51	52	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	997.9	997.9	997.9	997.9	997.9
2.5°	1001.3	997.9	995.6	996.8	997.9
5°	997.9	995.6	992.3	994.5	995.6
7.5°	992.3	990.0	987.7	990.0	991.1
10°	984.4	982.1	979.9	983.2	985.5
12.5°	974.2	972.0	970.9	975.4	977.6
15°	960.7	959.6	959.6	964.1	967.5
17.5°	947.2	946.1	948.3	954.0	956.2
20°	930.3	930.3	933.7	940.4	943.8
22.5°	911.2	912.3	917.9	926.9	931.4
25°	890.9	893.1	899.9	912.3	917.9
27.5°	865.0	869.5	880.7	895.4	903.3
30°	841.3	845.8	859.4	878.5	887.5
32.5°	813.2	821.1	836.8	859.4	869.5
35°	783.9	792.9	814.3	840.2	851.5
37.5°	754.6	763.6	790.6	819.9	833.4
40°	718.6	734.3	763.6	798.5	813.2
42.5°	687.0	701.7	737.7	776.0	791.8
45°	648.7	667.9	710.7	753.5	769.2
47.5°	610.4	634.1	682.5	728.7	746.7
50°	573.3	598.1	649.9	701.7	721.9
52.5°	532.7	563.1	620.6	674.6	693.8
55°	487.7	530.5	589.0	642.0	657.7
57.5°	443.8	488.8	555.3	605.9	613.8
60°	401.0	447.1	519.2	558.6	567.6
62.5°	353.7	406.6	480.9	512.5	519.2
65°	309.7	366.0	437.0	455.0	459.5
67.5°	263.5	323.2	386.3	404.3	408.8
70°	218.5	282.7	336.8	352.5	361.5
72.5°	175.7	241.0	282.7	299.6	304.1
75°	135.2	201.6	232.0	248.9	251.2
77.5°	102.5	157.7	183.6	197.1	199.4
80°	71.0	109.2	131.8	141.9	144.2
82.5°	45.1	69.8	84.5	92.4	92.4
85°	24.8	36.0	43.9	50.7	51.8
87.5°	9.0	11.3	14.6	22.5	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)