

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: P225606

Luminaire Tested: **22AC-LD5-44-SQP-UNV-L835-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: P225606
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-L835-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH SQP LENS
Light Source: (84)3500K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3237.7 lumens
Efficiency: N/A
Efficacy: 76.5 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

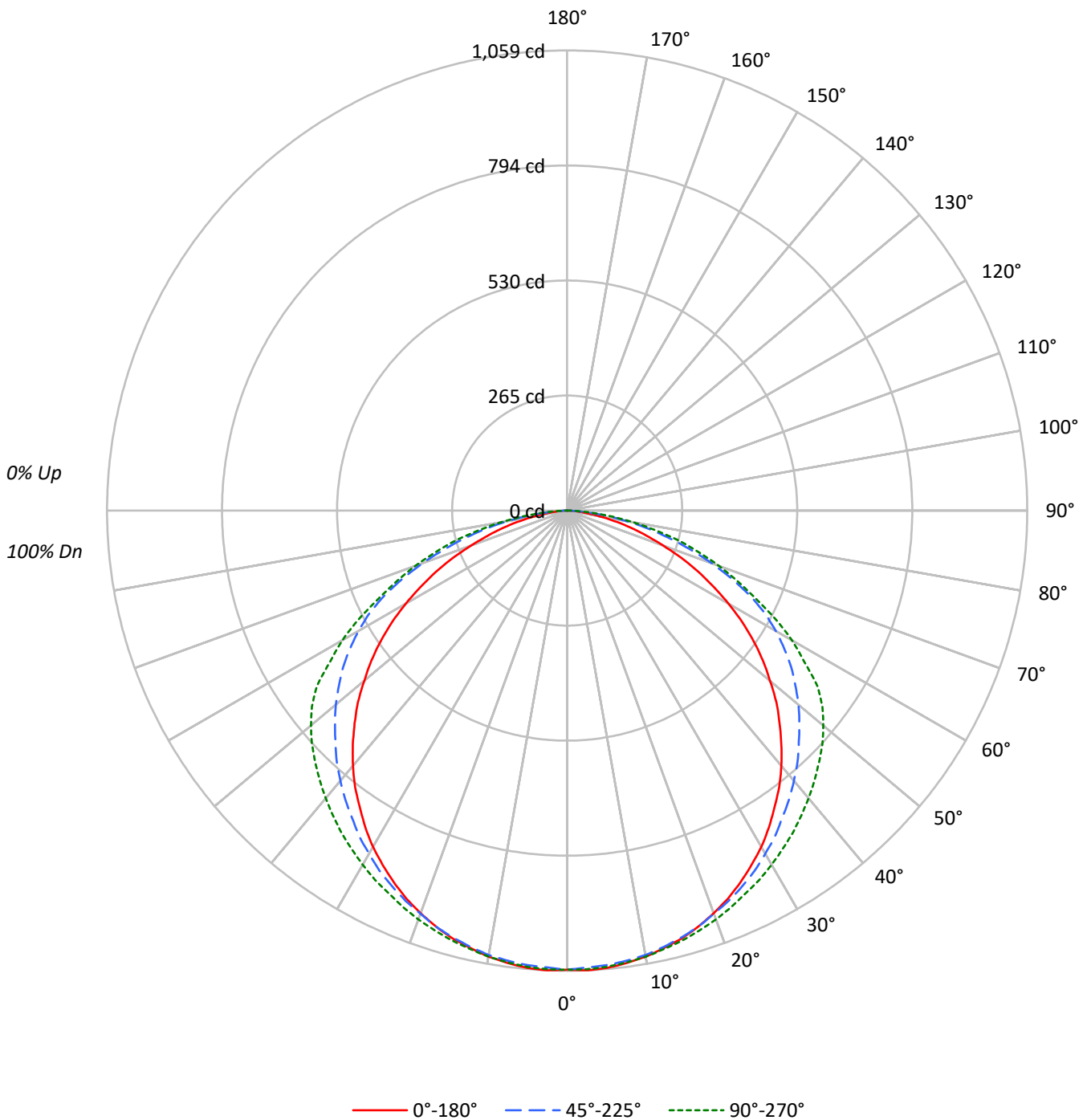
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2843	2843	2843
5°	2854	2837	2847
10°	2848	2838	2848
15°	2840	2833	2854
20°	2824	2827	2868
25°	2802	2833	2886
30°	2777	2833	2925
35°	2734	2835	2974
40°	2694	2852	3036
45°	2632	2870	3119
50°	2552	2911	3222
55°	2457	2956	3298
60°	2309	2984	3218
65°	2120	2960	3041
70°	1843	2781	2922
75°	1571	2503	2756
80°	1190	2143	2382
85°	790	1423	1661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	3.1
10°-20°	287.8	8.9
20°-30°	441.0	13.6
30°-40°	542.8	16.8
40°-50°	583.4	18.0
50°-60°	553.9	17.1
60°-70°	429.2	13.3
70°-80°	242.3	7.5
80°-90°	57.2	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°	828.9	25.6
0°-40°	1371.7	42.4
0°-60°	2509.0	77.5
0°-90°	3237.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3237.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1056	1053	1050	1051	1054	100
15°	1019	1018	1017	1022	1024	288
25°	944	946	954	966	972	435
35°	832	843	863	892	905	521
45°	692	712	754	802	820	533
55°	524	566	630	684	703	467
65°	333	389	465	474	478	329
75°	151	214	241	256	265	160
85°	26	37	46	52	54	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.5	1056.5	1056.5	1056.5	1056.5
2.5°	1059.0	1056.5	1052.6	1055.2	1056.5
5°	1056.5	1052.6	1050.1	1051.3	1053.9
7.5°	1050.1	1047.5	1044.9	1047.5	1048.8
10°	1042.4	1039.8	1038.5	1041.1	1042.4
12.5°	1030.8	1029.6	1028.3	1032.1	1033.4
15°	1019.3	1018.0	1016.8	1021.9	1024.4
17.5°	1004.0	1002.7	1004.0	1009.1	1012.9
20°	986.0	986.0	987.3	996.3	1001.4
22.5°	966.8	968.1	971.9	980.9	987.3
25°	943.8	946.3	954.0	965.5	971.9
27.5°	919.4	923.3	934.8	948.9	957.9
30°	893.8	898.9	911.8	931.0	941.2
32.5°	864.4	870.8	890.0	913.0	923.3
35°	832.4	842.6	863.1	892.5	905.3
37.5°	801.6	811.9	838.8	870.8	884.9
40°	767.0	779.9	811.9	847.7	864.4
42.5°	729.9	746.6	785.0	826.0	842.6
45°	691.5	712.0	754.2	801.6	819.6
47.5°	653.1	674.8	724.8	776.0	796.5
50°	609.5	637.7	695.3	747.8	769.6
52.5°	568.6	600.6	662.0	717.1	740.2
55°	523.7	566.0	630.0	683.8	703.0
57.5°	477.6	525.0	592.9	641.6	646.7
60°	429.0	478.9	554.5	589.1	598.0
62.5°	380.3	435.4	513.5	539.1	540.4
65°	332.9	389.3	464.8	473.8	477.6
67.5°	284.3	347.0	409.8	416.2	423.9
70°	234.3	303.5	353.4	366.2	371.4
72.5°	190.8	258.7	295.8	311.2	316.3
75°	151.1	213.9	240.7	256.1	265.1
77.5°	111.4	165.2	189.5	202.3	206.2
80°	76.8	116.5	138.3	148.5	153.7
82.5°	48.7	74.3	88.4	98.6	101.2
85°	25.6	37.1	46.1	52.5	53.8
87.5°	10.2	11.5	15.4	25.6	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)