

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: P225623

Luminaire Tested: **22AC-LD5-38-RDP-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: P225623
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-L835-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH RDP 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: 2992.3 lumens
Efficiency: N/A
Efficacy: 87.2 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

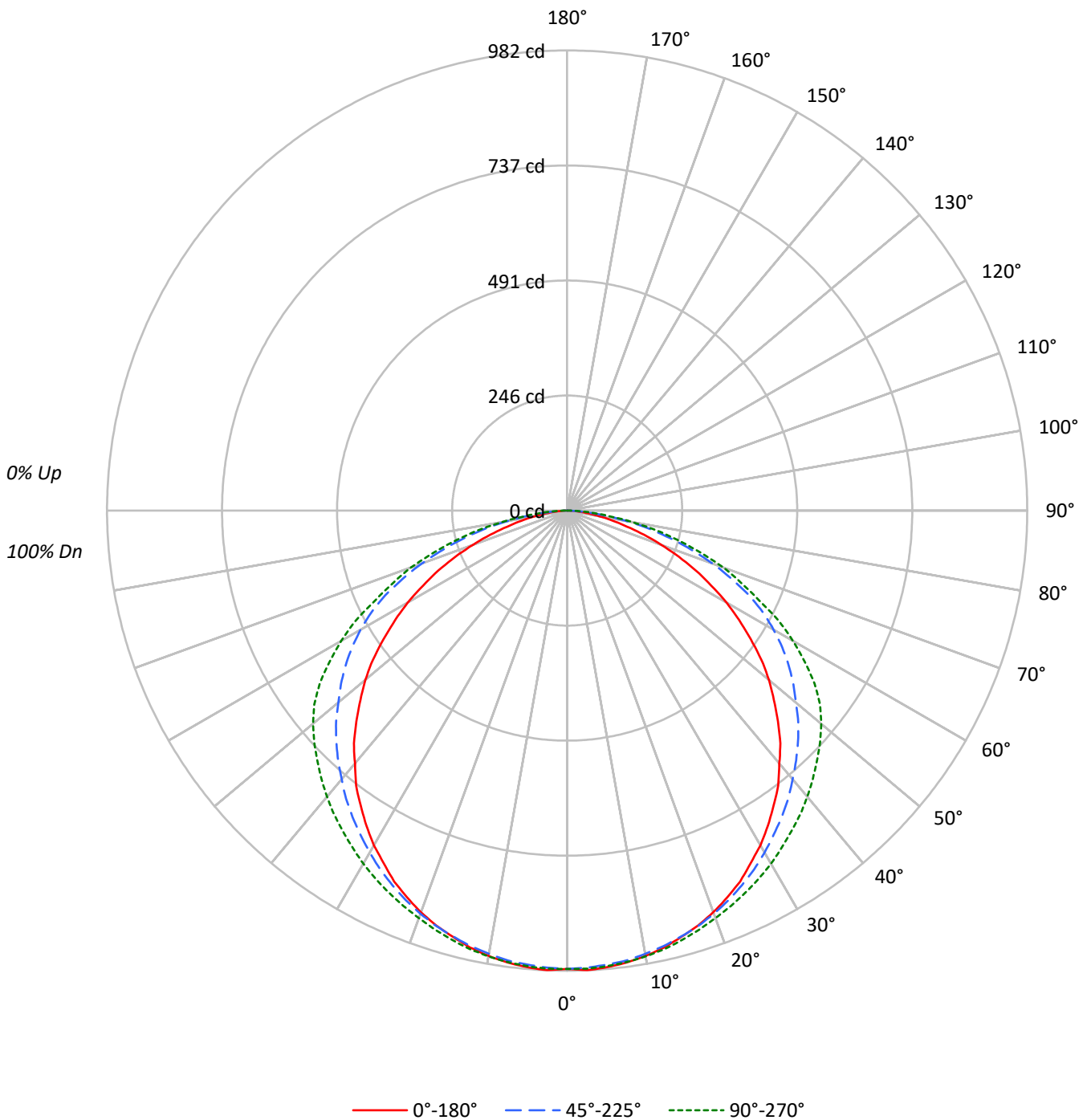
Input Watts (W): 34.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2633	2633	2633
5°	2643	2628	2637
10°	2637	2625	2640
15°	2624	2621	2642
20°	2612	2621	2650
25°	2593	2620	2672
30°	2563	2618	2704
35°	2525	2622	2742
40°	2475	2630	2800
45°	2420	2651	2870
50°	2353	2667	2963
55°	2243	2709	3025
60°	2116	2739	2995
65°	1934	2728	2869
70°	1685	2598	2788
75°	1378	2365	2560
80°	1079	2002	2190
85°	750	1331	1568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	3.1
10°-20°	266.4	8.9
20°-30°	407.8	13.6
30°-40°	501.1	16.7
40°-50°	537.4	18.0
50°-60°	509.4	17.0
60°-70°	398.1	13.3
70°-80°	226.4	7.6
80°-90°	53.0	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°	766.9	25.6
0°-40°	1268.0	42.4
0°-60°	2314.7	77.4
0°-90°	2992.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2992.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	978	976	973	975	976	93
15°	942	941	941	945	948	266
25°	873	876	882	894	900	402
35°	768	777	798	824	835	481
45°	636	655	697	739	754	490
55°	478	520	578	629	645	428
65°	304	359	428	446	450	300
75°	132	198	228	244	246	144
85°	24	35	43	50	51	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	978.3	978.3	978.3	978.3	978.3
2.5°	981.6	978.3	976.1	977.2	978.3
5°	978.3	976.1	972.8	975.0	976.1
7.5°	972.8	970.6	968.4	970.6	971.7
10°	965.1	962.9	960.6	964.0	966.2
12.5°	955.1	952.9	951.8	956.2	958.4
15°	941.9	940.8	940.8	945.2	948.5
17.5°	928.6	927.5	929.7	935.3	937.5
20°	912.1	912.1	915.4	922.0	925.3
22.5°	893.3	894.4	899.9	908.8	913.2
25°	873.4	875.6	882.3	894.4	899.9
27.5°	848.0	852.4	863.5	877.8	885.6
30°	824.8	829.2	842.5	861.3	870.1
32.5°	797.2	805.0	820.4	842.5	852.4
35°	768.5	777.4	798.3	823.7	834.8
37.5°	739.8	748.6	775.1	803.9	817.1
40°	704.5	719.9	748.6	782.9	797.2
42.5°	673.6	687.9	723.2	760.8	776.2
45°	636.0	654.8	696.7	738.7	754.2
47.5°	598.5	621.7	669.1	714.4	732.1
50°	562.0	586.3	637.1	687.9	707.8
52.5°	522.3	552.1	608.4	661.4	680.2
55°	478.1	520.1	577.5	629.4	644.8
57.5°	435.1	479.2	544.4	594.1	601.8
60°	393.1	438.4	509.0	547.7	556.5
62.5°	346.7	398.6	471.5	502.4	509.0
65°	303.7	358.9	428.4	446.1	450.5
67.5°	258.4	316.9	378.7	396.4	400.8
70°	214.2	277.2	330.2	345.6	354.4
72.5°	172.3	236.3	277.2	293.7	298.1
75°	132.5	197.7	227.5	244.0	246.2
77.5°	100.5	154.6	180.0	193.2	195.4
80°	69.6	107.1	129.2	139.1	141.3
82.5°	44.2	68.5	82.8	90.5	90.5
85°	24.3	35.3	43.1	49.7	50.8
87.5°	8.8	11.0	14.4	22.1	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)