

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: P225605

Luminaire Tested: **22AC-LD5-38-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: P225605
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-LD5-38-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: 2791.3 lumens
Efficiency: N/A
Efficacy: 81.4 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

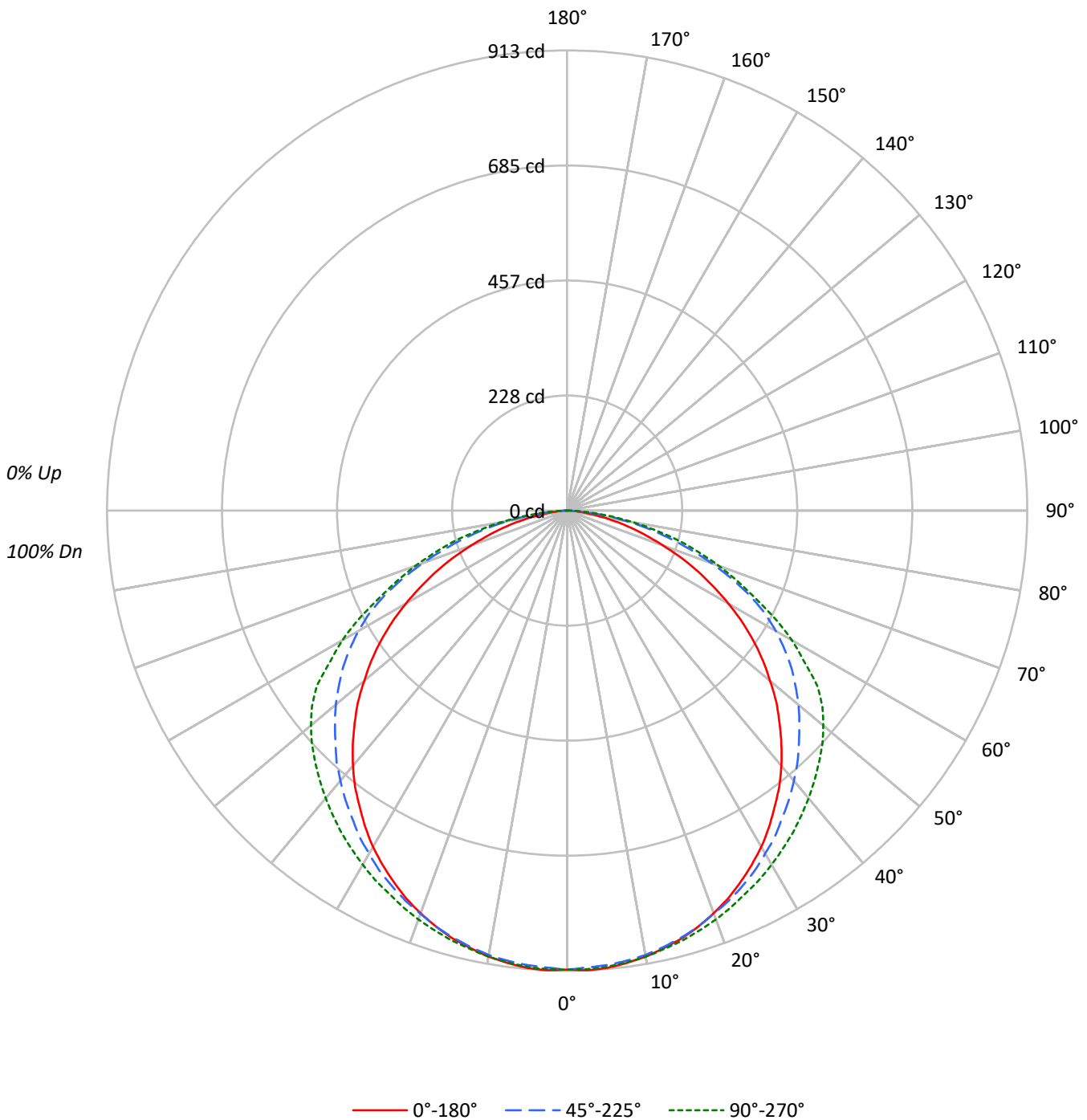
Input Watts (W): 34.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2451	2451	2451
5°	2460	2445	2454
10°	2456	2446	2456
15°	2448	2442	2461
20°	2434	2438	2472
25°	2416	2442	2488
30°	2394	2442	2521
35°	2357	2444	2564
40°	2323	2459	2618
45°	2269	2475	2689
50°	2200	2510	2778
55°	2118	2548	2844
60°	1990	2573	2775
65°	1827	2552	2622
70°	1589	2397	2519
75°	1355	2158	2376
80°	1026	1847	2053
85°	682	1226	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	3.1
10°-20°	248.2	8.9
20°-30°	380.2	13.6
30°-40°	468.0	16.8
40°-50°	503.0	18.0
50°-60°	477.5	17.1
60°-70°	370.1	13.3
70°-80°	208.9	7.5
80°-90°	49.3	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°	714.6	25.6
0°-40°	1182.6	42.4
0°-60°	2163.1	77.5
0°-90°	2791.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2791.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	911	911	911	911	911	
5°	911	908	905	906	909	87
15°	879	878	877	881	883	248
25°	814	816	822	832	838	375
35°	718	726	744	770	780	449
45°	596	614	650	691	707	460
55°	452	488	543	590	606	403
65°	287	336	401	408	412	283
75°	130	184	208	221	228	138
85°	22	32	40	45	46	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.8	910.8	910.8	910.8	910.8
2.5°	913.0	910.8	907.5	909.7	910.8
5°	910.8	907.5	905.3	906.4	908.6
7.5°	905.3	903.1	900.9	903.1	904.2
10°	898.7	896.4	895.3	897.6	898.7
12.5°	888.7	887.6	886.5	889.8	890.9
15°	878.8	877.7	876.6	881.0	883.2
17.5°	865.5	864.4	865.5	870.0	873.3
20°	850.1	850.1	851.2	858.9	863.3
22.5°	833.5	834.6	837.9	845.7	851.2
25°	813.6	815.9	822.5	832.4	837.9
27.5°	792.7	796.0	805.9	818.1	825.8
30°	770.6	775.0	786.0	802.6	811.4
32.5°	745.2	750.7	767.3	787.2	796.0
35°	717.6	726.4	744.1	769.5	780.5
37.5°	691.1	699.9	723.1	750.7	762.9
40°	661.3	672.3	699.9	730.8	745.2
42.5°	629.3	643.6	676.8	712.1	726.4
45°	596.2	613.8	650.3	691.1	706.6
47.5°	563.0	581.8	624.9	669.0	686.7
50°	525.5	549.8	599.5	644.7	663.5
52.5°	490.2	517.8	570.8	618.2	638.1
55°	451.5	488.0	543.2	589.5	606.1
57.5°	411.8	452.6	511.2	553.1	557.5
60°	369.8	412.9	478.0	507.8	515.6
62.5°	327.9	375.4	442.7	464.8	465.9
65°	287.0	335.6	400.8	408.5	411.8
67.5°	245.1	299.2	353.3	358.8	365.4
70°	202.0	261.6	304.7	315.7	320.2
72.5°	164.5	223.0	255.0	268.3	272.7
75°	130.3	184.4	207.6	220.8	228.5
77.5°	96.0	142.4	163.4	174.4	177.7
80°	66.2	100.5	119.2	128.1	132.5
82.5°	42.0	64.0	76.2	85.0	87.2
85°	22.1	32.0	39.7	45.3	46.4
87.5°	8.8	9.9	13.2	22.1	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)