

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: P225546

Luminaire Tested: **14AC-LD5-39-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: P225546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14AC-LD5-39-RDP-UNV-L835-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH RDP LENS
Light Source: (84)3500K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2762.2 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

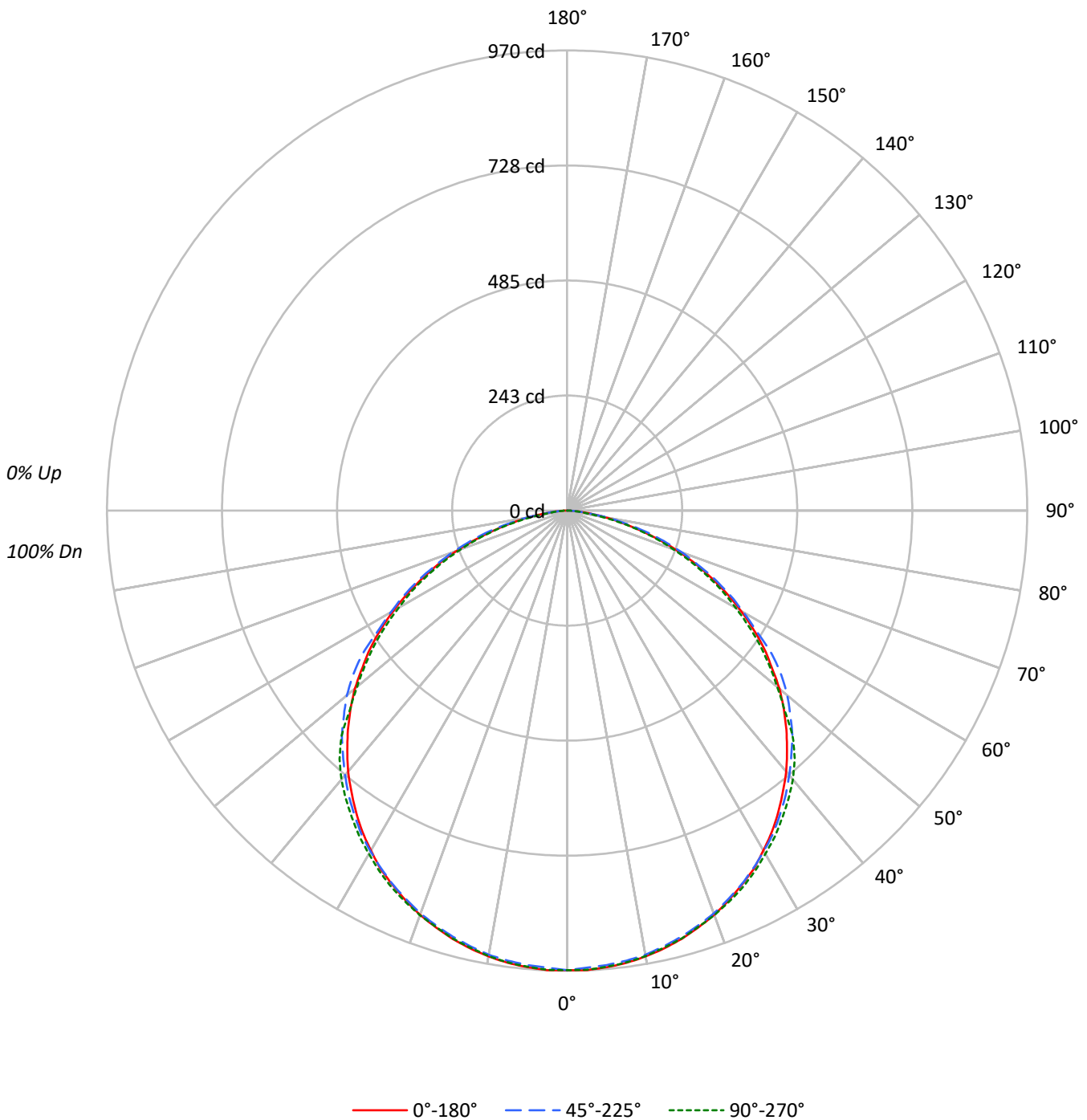
Input Watts (W): 36
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2720	2720	2720
5°	2723	2710	2720
10°	2721	2711	2718
15°	2717	2704	2714
20°	2709	2701	2712
25°	2697	2695	2714
30°	2683	2689	2709
35°	2660	2682	2710
40°	2633	2670	2713
45°	2595	2667	2671
50°	2552	2647	2525
55°	2482	2578	2433
60°	2376	2411	2305
65°	2225	2285	2165
70°	2025	2107	1959
75°	1690	1847	1661
80°	1339	1412	1150
85°	870	754	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	3.3
10°-20°	263.4	9.5
20°-30°	402.1	14.6
30°-40°	490.3	17.7
40°-50°	513.3	18.6
50°-60°	456.7	16.5
60°-70°	336.9	12.2
70°-80°	174.1	6.3
80°-90°	33.8	1.2
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°	757.2	27.4
0°-40°	1247.4	45.2
0°-60°	2217.4	80.3
0°-90°	2762.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2762.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	969	969	969	969	969	
5°	966	965	962	965	965	92
15°	934	934	930	934	934	264
25°	871	871	870	876	876	402
35°	776	777	782	791	790	485
45°	654	658	672	678	672	504
55°	507	518	527	504	497	452
65°	335	358	344	332	326	332
75°	156	172	170	157	153	168
85°	27	30	23	22	21	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	968.7	968.7	968.7	968.7	968.7
2.5°	969.6	968.7	964.2	968.7	968.7
5°	966.0	965.1	961.5	965.1	965.1
7.5°	961.5	960.6	957.0	960.6	960.6
10°	954.3	953.4	950.7	954.3	953.4
12.5°	945.3	945.3	940.8	945.3	943.5
15°	934.5	933.6	930.0	933.6	933.6
17.5°	921.0	920.1	917.4	921.9	920.1
20°	906.6	905.7	903.9	908.4	907.5
22.5°	889.5	889.5	886.8	892.2	892.2
25°	870.6	870.6	869.7	876.0	876.0
27.5°	851.7	849.9	849.9	856.2	857.1
30°	827.4	827.4	829.2	836.4	835.5
32.5°	803.1	804.0	807.6	813.9	814.8
35°	776.1	777.0	782.4	791.4	790.5
37.5°	747.2	750.0	756.3	766.2	766.2
40°	718.4	720.2	728.3	739.1	740.0
42.5°	686.0	690.5	699.5	712.1	710.3
45°	653.6	658.1	671.6	677.9	672.5
47.5°	619.4	624.8	638.3	639.2	621.2
50°	584.3	590.6	605.9	587.9	578.0
52.5°	543.8	555.5	569.0	543.8	537.5
55°	506.9	517.7	526.7	504.2	497.0
57.5°	465.5	479.9	473.6	462.8	453.8
60°	423.1	438.4	429.4	418.6	410.5
62.5°	379.9	397.0	388.0	377.2	370.0
65°	334.9	358.3	343.9	332.2	325.9
67.5°	292.6	315.1	298.0	289.0	282.7
70°	246.7	265.6	256.6	244.9	238.6
72.5°	201.7	216.1	213.4	200.8	196.3
75°	155.8	172.0	170.2	156.7	153.1
77.5°	117.0	132.3	126.9	116.1	111.6
80°	82.8	92.7	87.3	74.7	71.1
82.5°	50.4	58.5	49.5	42.3	38.7
85°	27.0	29.7	23.4	21.6	20.7
87.5°	9.9	9.9	9.9	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)