

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: P225547

Luminaire Tested: **14AC-LD5-39-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: P225547
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-L840-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH RDP LENS
Light Source: (84)4000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2817.6 lumens
Efficiency: N/A
Efficacy: 79.0 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

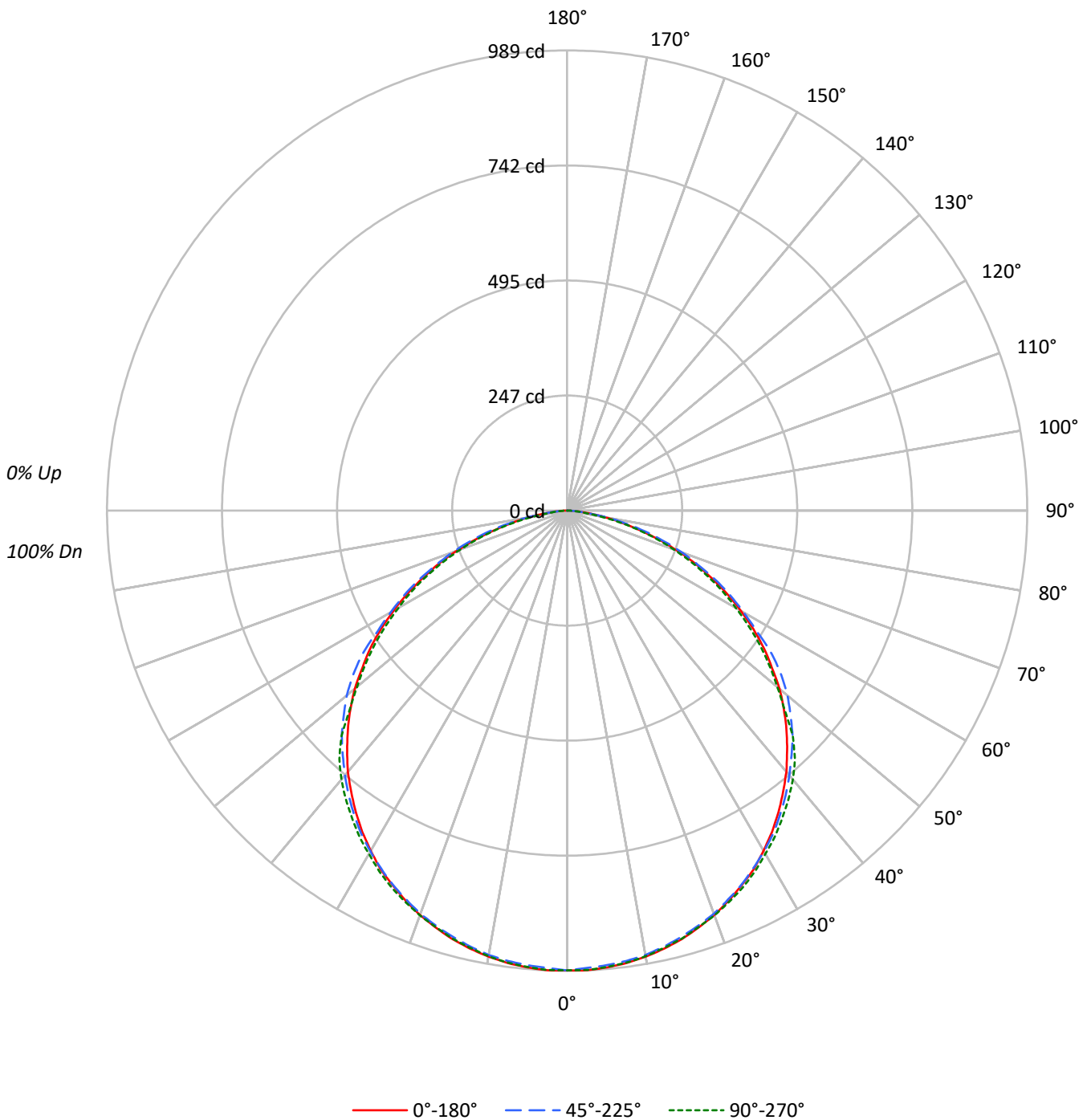
Input Watts (W): 35.67
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2775	2775	2775
5°	2778	2765	2775
10°	2776	2765	2773
15°	2771	2758	2768
20°	2763	2755	2766
25°	2752	2748	2769
30°	2737	2742	2763
35°	2714	2736	2764
40°	2686	2724	2767
45°	2648	2721	2724
50°	2604	2700	2576
55°	2531	2630	2482
60°	2424	2460	2352
65°	2270	2331	2209
70°	2066	2149	1998
75°	1724	1883	1694
80°	1366	1441	1174
85°	889	770	680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	3.3
10°-20°	268.7	9.5
20°-30°	410.1	14.6
30°-40°	500.1	17.7
40°-50°	523.6	18.6
50°-60°	465.8	16.5
60°-70°	343.7	12.2
70°-80°	177.6	6.3
80°-90°	34.5	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°	772.4	27.4
0°-40°	1272.5	45.2
0°-60°	2261.9	80.3
0°-90°	2817.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2817.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	985	984	981	984	984	94
15°	953	952	949	952	952	269
25°	888	888	887	894	894	410
35°	792	792	798	807	806	495
45°	667	671	685	692	686	514
55°	517	528	537	514	507	461
65°	342	366	351	339	332	339
75°	159	175	174	160	156	172
85°	28	30	24	22	21	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	988.2	988.2	988.2	988.2	988.2
2.5°	989.1	988.2	983.6	988.2	988.2
5°	985.4	984.5	980.8	984.5	984.5
7.5°	980.8	979.9	976.2	979.9	979.9
10°	973.5	972.5	969.8	973.5	972.5
12.5°	964.3	964.3	959.7	964.3	962.4
15°	953.3	952.3	948.7	952.3	952.3
17.5°	939.5	938.6	935.8	940.4	938.6
20°	924.8	923.9	922.0	926.6	925.7
22.5°	907.3	907.3	904.6	910.1	910.1
25°	888.1	888.1	887.1	893.6	893.6
27.5°	868.8	866.9	866.9	873.4	874.3
30°	844.0	844.0	845.8	853.2	852.2
32.5°	819.2	820.1	823.8	830.2	831.1
35°	791.6	792.5	798.1	807.2	806.3
37.5°	762.2	765.0	771.4	781.5	781.5
40°	732.9	734.7	743.0	754.0	754.9
42.5°	699.8	704.4	713.6	726.4	724.6
45°	666.7	671.3	685.1	691.5	686.0
47.5°	631.8	637.3	651.1	652.0	633.7
50°	596.0	602.4	618.1	599.7	589.6
52.5°	554.7	566.6	580.4	554.7	548.3
55°	517.0	528.1	537.2	514.3	506.9
57.5°	474.8	489.5	483.1	472.0	462.9
60°	431.6	447.2	438.1	427.0	418.8
62.5°	387.5	405.0	395.8	384.8	377.4
65°	341.6	365.5	350.8	338.9	332.4
67.5°	298.5	321.4	304.0	294.8	288.4
70°	251.6	270.9	261.7	249.8	243.4
72.5°	205.7	220.4	217.7	204.8	200.2
75°	158.9	175.4	173.6	159.8	156.1
77.5°	119.4	135.0	129.5	118.5	113.9
80°	84.5	94.6	89.1	76.2	72.6
82.5°	51.4	59.7	50.5	43.2	39.5
85°	27.6	30.3	23.9	22.0	21.1
87.5°	10.1	10.1	10.1	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)