

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: P225569

Luminaire Tested: **14AC-LD5-39-SQP-UNV-L830-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: P225569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14AC-LD5-39-SQP-UNV-L830-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH SQP LENS
Light Source: (84)3000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2633.4 lumens
Efficiency: N/A
Efficacy: 73.2 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

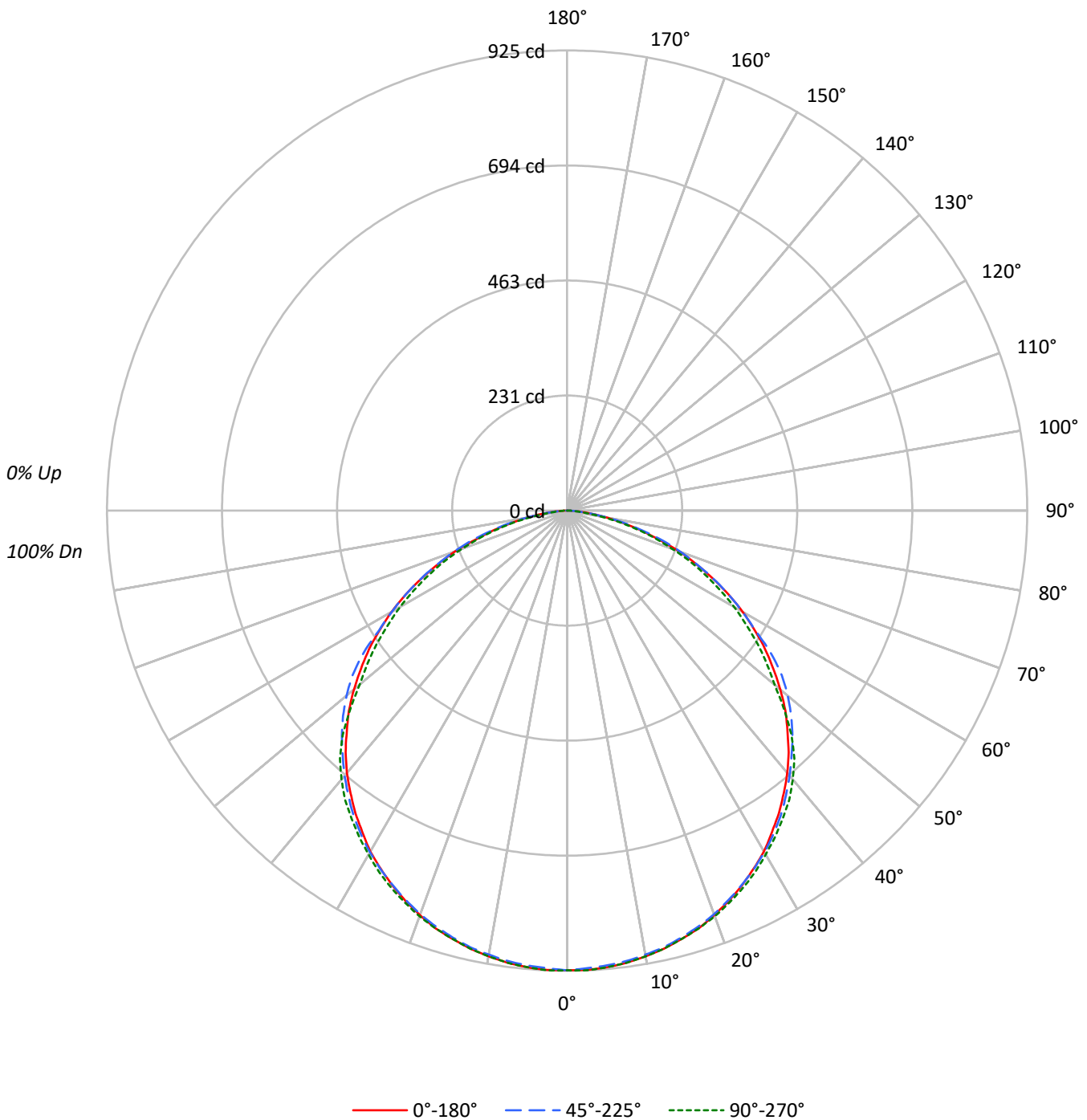
Input Watts (W): 36
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44					44			
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2595	2595	2595
5°	2597	2587	2597
10°	2594	2584	2594
15°	2590	2583	2590
20°	2585	2580	2593
25°	2576	2573	2592
30°	2565	2571	2588
35°	2544	2565	2590
40°	2524	2550	2586
45°	2487	2543	2533
50°	2443	2529	2377
55°	2380	2450	2288
60°	2289	2285	2179
65°	2145	2157	2039
70°	1970	1992	1846
75°	1655	1733	1577
80°	1313	1342	1111
85°	863	747	631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.3
10°-20°	251.5	9.6
20°-30°	384.1	14.6
30°-40°	468.6	17.8
40°-50°	490.0	18.6
50°-60°	433.8	16.5
60°-70°	319.5	12.1
70°-80°	165.4	6.3
80°-90°	32.9	1.3
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°	723.1	27.5
0°-40°	1191.7	45.3
0°-60°	2115.6	80.3
0°-90°	2633.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2633.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	921	921	918	921	921	88
15°	891	891	888	892	891	252
25°	831	831	830	836	837	383
35°	742	744	748	756	756	464
45°	626	632	640	646	638	484
55°	486	496	500	474	467	434
65°	323	342	325	312	307	320
75°	152	163	160	150	145	163
85°	27	28	23	20	20	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	924.1	924.1	924.1	924.1	924.1
2.5°	924.1	924.1	920.6	924.1	925.0
5°	921.4	921.4	917.9	921.4	921.4
7.5°	917.0	916.1	913.4	917.0	917.0
10°	909.8	909.8	906.3	910.7	909.8
12.5°	901.8	900.9	899.1	902.7	901.8
15°	891.1	891.1	888.4	892.0	891.1
17.5°	880.4	879.5	876.8	880.4	880.4
20°	865.2	864.4	863.5	867.0	867.9
22.5°	849.2	848.3	847.4	852.8	852.8
25°	831.3	831.3	830.5	835.8	836.7
27.5°	811.7	811.7	812.6	819.8	818.9
30°	791.2	791.2	793.0	798.3	798.3
32.5°	766.2	768.0	771.6	777.8	777.8
35°	742.1	743.9	748.4	755.5	755.5
37.5°	715.4	718.1	722.5	731.4	733.2
40°	688.6	690.4	695.8	705.6	705.6
42.5°	659.2	661.0	668.1	677.9	676.1
45°	626.2	631.5	640.5	645.8	637.8
47.5°	595.0	598.5	611.0	604.8	591.4
50°	559.3	566.4	578.9	556.6	544.1
52.5°	522.7	530.7	544.1	512.9	505.8
55°	486.1	496.0	500.4	474.5	467.4
57.5°	446.9	457.6	448.7	433.5	426.4
60°	407.6	420.1	406.8	392.5	388.0
62.5°	366.6	380.9	365.7	353.2	347.0
65°	322.9	342.5	324.7	312.2	306.9
67.5°	280.1	300.6	281.9	271.2	267.6
70°	239.9	251.5	242.6	231.9	224.8
72.5°	191.8	203.4	201.6	190.0	185.5
75°	152.5	163.2	159.7	149.9	145.4
77.5°	113.3	124.9	121.3	109.7	107.9
80°	81.2	89.2	83.0	72.3	68.7
82.5°	50.8	57.1	49.1	41.0	39.2
85°	26.8	28.5	23.2	20.5	19.6
87.5°	8.9	9.8	9.8	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)