

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: P225545

Luminaire Tested: **14AC-LD5-39-RDP-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: P225545
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-L830-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH RDP 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: 2736.9 lumens
Efficiency: N/A
Efficacy: 76.0 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

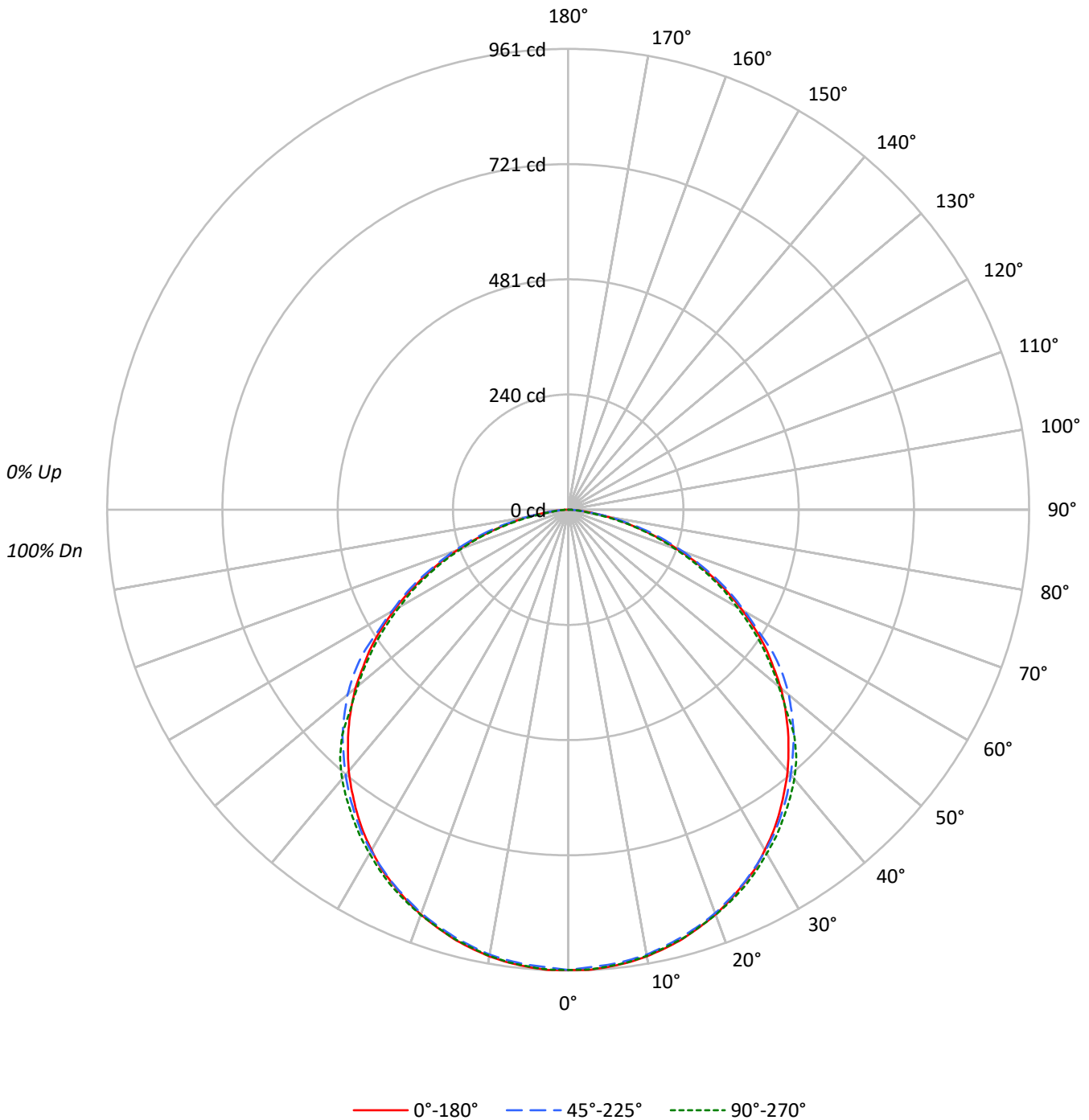
Input Watts (W): 36
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2695	2695	2695
5°	2698	2685	2696
10°	2696	2686	2694
15°	2692	2679	2689
20°	2684	2676	2687
25°	2673	2670	2689
30°	2658	2664	2684
35°	2636	2657	2685
40°	2610	2645	2688
45°	2572	2643	2646
50°	2529	2623	2502
55°	2459	2555	2411
60°	2355	2390	2285
65°	2205	2264	2145
70°	2007	2087	1941
75°	1674	1829	1645
80°	1328	1399	1140
85°	863	747	660



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	3.3
10°-20°	261.0	9.5
20°-30°	398.4	14.6
30°-40°	485.7	17.7
40°-50°	508.6	18.6
50°-60°	452.5	16.5
60°-70°	333.8	12.2
70°-80°	172.5	6.3
80°-90°	33.5	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°	750.3	27.4
0°-40°	1236.0	45.2
0°-60°	2197.1	80.3
0°-90°	2736.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2736.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	957	956	953	956	956	91
15°	926	925	922	925	925	261
25°	863	863	862	868	868	398
35°	769	770	775	784	783	481
45°	648	652	666	672	666	499
55°	502	513	522	500	492	448
65°	332	355	341	329	323	329
75°	154	170	169	155	152	167
85°	27	29	23	21	20	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	959.8	959.8	959.8	959.8	959.8
2.5°	960.7	959.8	955.4	959.8	959.8
5°	957.2	956.3	952.7	956.3	956.3
7.5°	952.7	951.8	948.3	951.8	951.8
10°	945.6	944.7	942.0	945.6	944.7
12.5°	936.7	936.7	932.2	936.7	934.9
15°	925.9	925.1	921.5	925.1	925.1
17.5°	912.6	911.7	909.0	913.5	911.7
20°	898.3	897.4	895.6	900.1	899.2
22.5°	881.3	881.3	878.7	884.0	884.0
25°	862.6	862.6	861.7	868.0	868.0
27.5°	843.9	842.1	842.1	848.3	849.2
30°	819.8	819.8	821.6	828.7	827.8
32.5°	795.7	796.6	800.2	806.4	807.3
35°	768.9	769.8	775.2	784.1	783.2
37.5°	740.4	743.1	749.3	759.1	759.1
40°	711.9	713.6	721.7	732.4	733.3
42.5°	679.7	684.2	693.1	705.6	703.8
45°	647.6	652.1	665.5	671.7	666.4
47.5°	613.7	619.1	632.5	633.4	615.5
50°	578.9	585.2	600.4	582.5	572.7
52.5°	538.8	550.4	563.8	538.8	532.6
55°	502.2	512.9	521.8	499.5	492.4
57.5°	461.2	475.5	469.2	458.5	449.6
60°	419.3	434.4	425.5	414.8	406.8
62.5°	376.4	393.4	384.5	373.8	366.6
65°	331.8	355.0	340.8	329.2	322.9
67.5°	289.9	312.2	295.3	286.3	280.1
70°	244.4	263.2	254.2	242.6	236.4
72.5°	199.8	214.1	211.4	198.9	194.5
75°	154.3	170.4	168.6	155.2	151.6
77.5°	116.0	131.1	125.8	115.1	110.6
80°	82.1	91.9	86.5	74.0	70.5
82.5°	50.0	58.0	49.1	41.9	38.4
85°	26.8	29.4	23.2	21.4	20.5
87.5°	9.8	9.8	9.8	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)