

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: P225549

Luminaire Tested: **14AC-LD5-44-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: P225549
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-LD5-44-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: 3040.0 lumens
Efficiency: N/A
Efficacy: 73.9 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

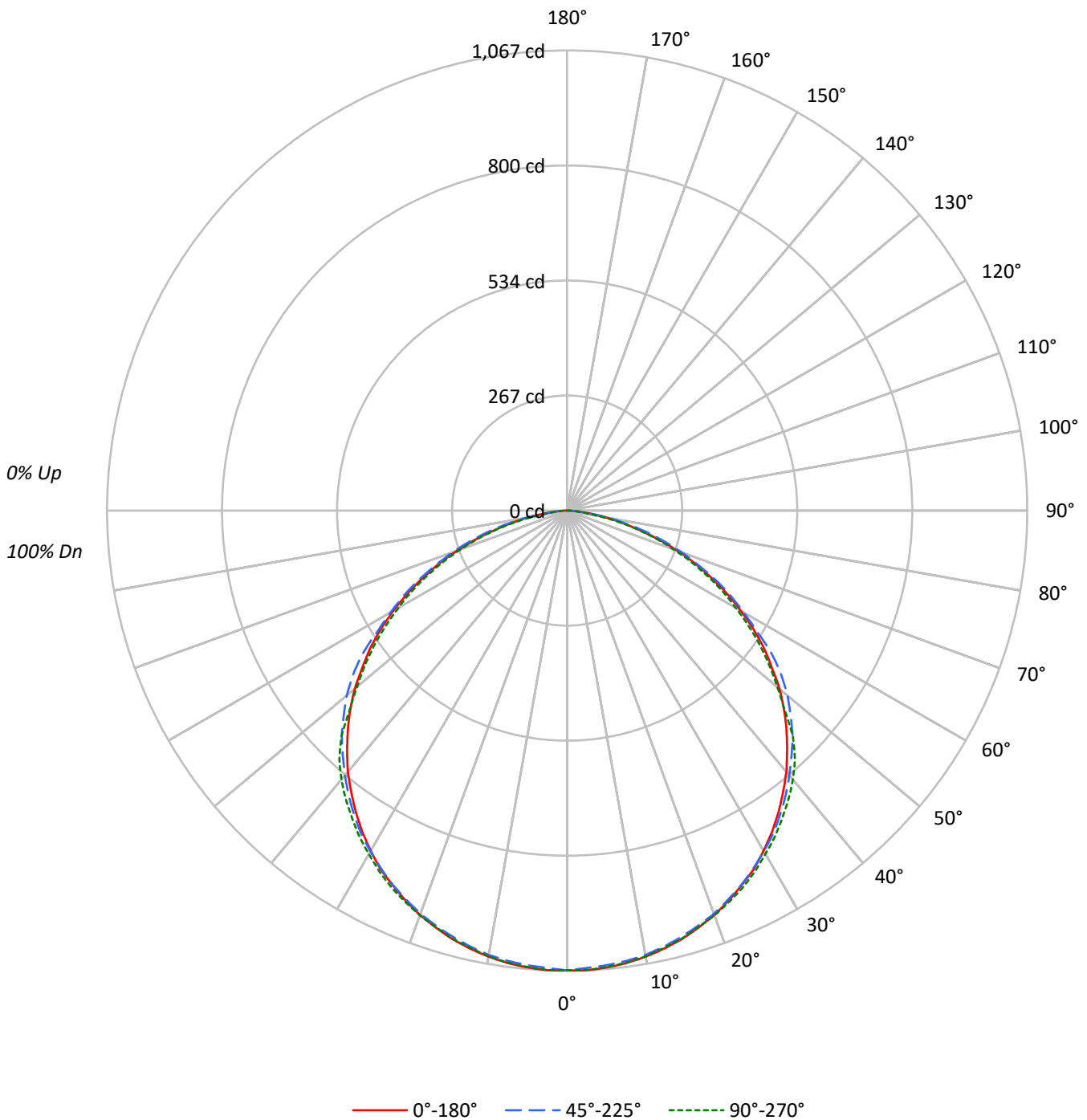
Input Watts (W): 41.12
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2994	2994	2994
5°	2997	2983	2994
10°	2995	2983	2992
15°	2990	2975	2987
20°	2982	2973	2984
25°	2968	2965	2987
30°	2953	2959	2981
35°	2928	2951	2982
40°	2898	2938	2986
45°	2856	2935	2939
50°	2809	2913	2779
55°	2731	2837	2677
60°	2615	2654	2537
65°	2449	2515	2383
70°	2229	2318	2156
75°	1860	2032	1827
80°	1475	1554	1266
85°	957	831	735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	3.3
10°-20°	289.9	9.5
20°-30°	442.5	14.6
30°-40°	539.5	17.7
40°-50°	564.9	18.6
50°-60°	502.6	16.5
60°-70°	370.8	12.2
70°-80°	191.6	6.3
80°-90°	37.2	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°	833.3	27.4
0°-40°	1372.9	45.2
0°-60°	2440.4	80.3
0°-90°	3040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1063	1062	1058	1062	1062	101
15°	1028	1028	1024	1028	1028	290
25°	958	958	957	964	964	442
35°	854	855	861	871	870	534
45°	719	724	739	746	740	555
55°	558	570	580	555	547	497
65°	369	394	378	366	359	365
75°	171	189	187	172	168	185
85°	30	33	26	24	23	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1066.1	1066.1	1066.1	1066.1	1066.1
2.5°	1067.1	1066.1	1061.2	1066.1	1066.1
5°	1063.2	1062.2	1058.2	1062.2	1062.2
7.5°	1058.2	1057.2	1053.2	1057.2	1057.2
10°	1050.3	1049.3	1046.3	1050.3	1049.3
12.5°	1040.4	1040.4	1035.4	1040.4	1038.4
15°	1028.5	1027.5	1023.5	1027.5	1027.5
17.5°	1013.6	1012.6	1009.6	1014.6	1012.6
20°	997.8	996.8	994.8	999.7	998.7
22.5°	978.9	978.9	976.0	981.9	981.9
25°	958.1	958.1	957.1	964.1	964.1
27.5°	937.3	935.3	935.3	942.3	943.3
30°	910.6	910.6	912.5	920.5	919.5
32.5°	883.8	884.8	888.8	895.7	896.7
35°	854.1	855.1	861.0	870.9	869.9
37.5°	822.4	825.4	832.3	843.2	843.2
40°	790.7	792.7	801.6	813.5	814.5
42.5°	755.0	760.0	769.9	783.7	781.8
45°	719.3	724.3	739.2	746.1	740.1
47.5°	681.7	687.6	702.5	703.5	683.7
50°	643.0	650.0	666.8	647.0	636.1
52.5°	598.5	611.3	626.2	598.5	591.5
55°	557.8	569.7	579.6	554.9	546.9
57.5°	512.3	528.1	521.2	509.3	499.4
60°	465.7	482.5	472.6	460.7	451.8
62.5°	418.1	437.0	427.0	415.2	407.2
65°	368.6	394.3	378.5	365.6	358.7
67.5°	322.0	346.8	328.0	318.1	311.1
70°	271.5	292.3	282.4	269.5	262.6
72.5°	221.9	237.8	234.8	221.0	216.0
75°	171.4	189.2	187.3	172.4	168.4
77.5°	128.8	145.7	139.7	127.8	122.9
80°	91.2	102.1	96.1	82.2	78.3
82.5°	55.5	64.4	54.5	46.6	42.6
85°	29.7	32.7	25.8	23.8	22.8
87.5°	10.9	10.9	10.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)