

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: P225537

Luminaire Tested: **14AC-LD5-29-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: P225537
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-LD5-29-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: 2017.3 lumens
Efficiency: N/A
Efficacy: 80.7 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

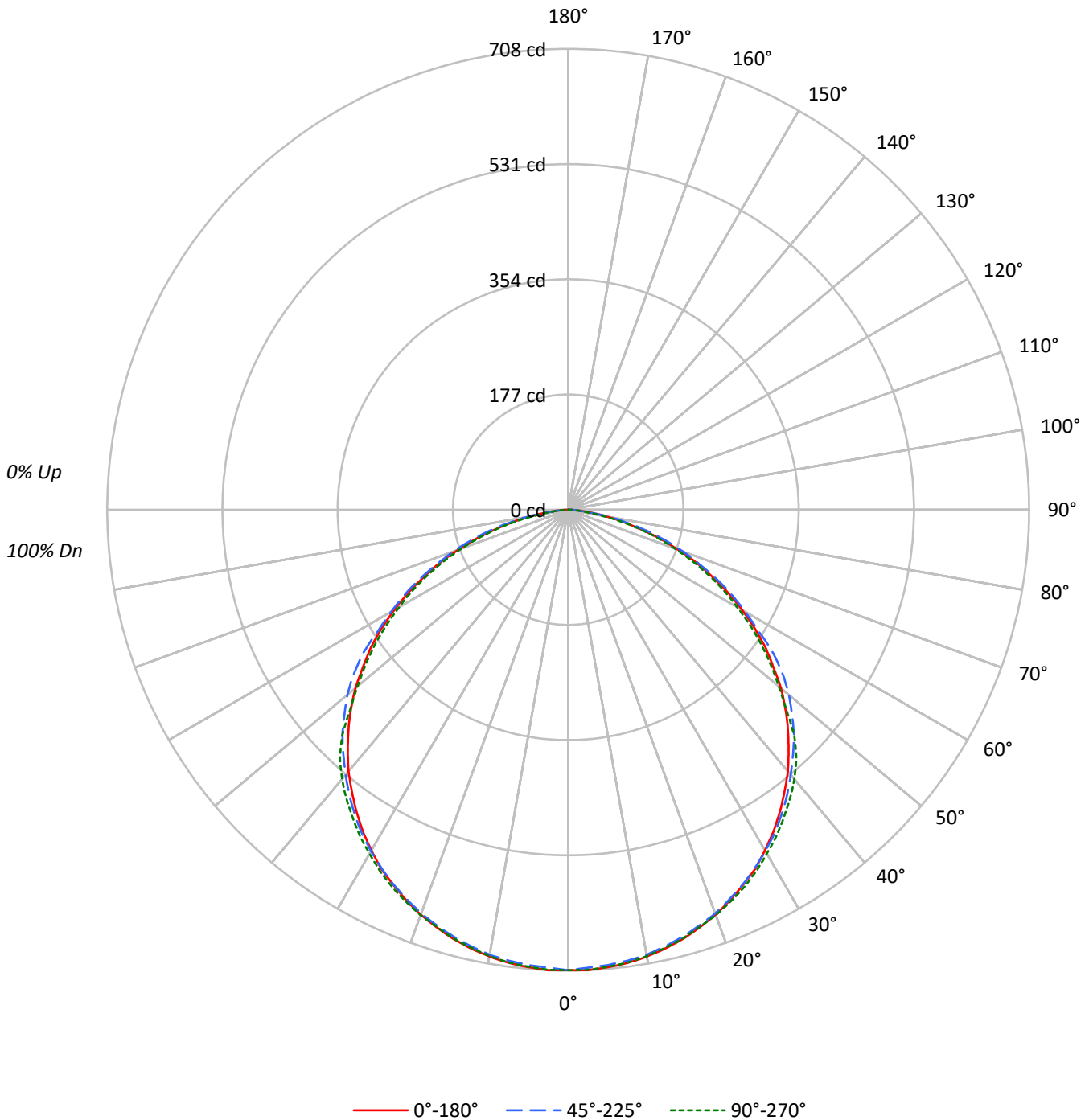
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1987	1987	1987
5°	1989	1979	1987
10°	1987	1980	1985
15°	1984	1974	1982
20°	1978	1973	1981
25°	1970	1968	1982
30°	1959	1964	1978
35°	1943	1959	1979
40°	1923	1950	1981
45°	1895	1948	1951
50°	1864	1933	1844
55°	1812	1883	1777
60°	1735	1761	1684
65°	1625	1669	1581
70°	1479	1539	1430
75°	1234	1349	1213
80°	978	1032	839
85°	635	551	486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	3.3
10°-20°	192.4	9.5
20°-30°	293.6	14.6
30°-40°	358.0	17.7
40°-50°	374.9	18.6
50°-60°	333.5	16.5
60°-70°	246.1	12.2
70°-80°	127.1	6.3
80°-90°	24.7	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°	553.0	27.4
0°-40°	911.0	45.2
0°-60°	1619.4	80.3
0°-90°	2017.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2017.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	706	705	702	705	705	67
15°	682	682	679	682	682	193
25°	636	636	635	640	640	293
35°	567	567	571	578	577	354
45°	477	481	490	495	491	368
55°	370	378	385	368	363	330
65°	245	262	251	243	238	242
75°	114	126	124	114	112	123
85°	20	22	17	16	15	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	707.5	707.5	707.5	707.5	707.5
2.5°	708.1	707.5	704.2	707.5	707.5
5°	705.5	704.8	702.2	704.8	704.8
7.5°	702.2	701.6	698.9	701.6	701.6
10°	697.0	696.3	694.3	697.0	696.3
12.5°	690.4	690.4	687.1	690.4	689.1
15°	682.5	681.8	679.2	681.8	681.8
17.5°	672.6	672.0	670.0	673.3	672.0
20°	662.1	661.4	660.1	663.4	662.8
22.5°	649.6	649.6	647.6	651.6	651.6
25°	635.8	635.8	635.1	639.7	639.7
27.5°	622.0	620.7	620.7	625.3	625.9
30°	604.2	604.2	605.6	610.8	610.2
32.5°	586.5	587.1	589.8	594.4	595.0
35°	566.8	567.4	571.4	577.9	577.3
37.5°	545.7	547.7	552.3	559.5	559.5
40°	524.7	526.0	531.9	539.8	540.5
42.5°	501.0	504.3	510.9	520.1	518.8
45°	477.3	480.6	490.5	495.1	491.2
47.5°	452.4	456.3	466.2	466.8	453.7
50°	426.7	431.3	442.5	429.3	422.1
52.5°	397.1	405.7	415.5	397.1	392.5
55°	370.2	378.1	384.6	368.2	362.9
57.5°	339.9	350.4	345.8	338.0	331.4
60°	309.0	320.2	313.6	305.7	299.8
62.5°	277.5	290.0	283.4	275.5	270.2
65°	244.6	261.7	251.2	242.6	238.0
67.5°	213.7	230.1	217.6	211.1	206.5
70°	180.2	194.0	187.4	178.8	174.2
72.5°	147.3	157.8	155.8	146.6	143.3
75°	113.7	125.6	124.3	114.4	111.8
77.5°	85.5	96.7	92.7	84.8	81.5
80°	60.5	67.7	63.8	54.6	51.9
82.5°	36.8	42.7	36.2	30.9	28.3
85°	19.7	21.7	17.1	15.8	15.1
87.5°	7.2	7.2	7.2	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)