

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: P219272

Luminaire Tested: **14AC-LD5-29-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: P219272  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14AC-LD5-29-UNV-L830-CD1-U  
Description: ACCORD 1x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

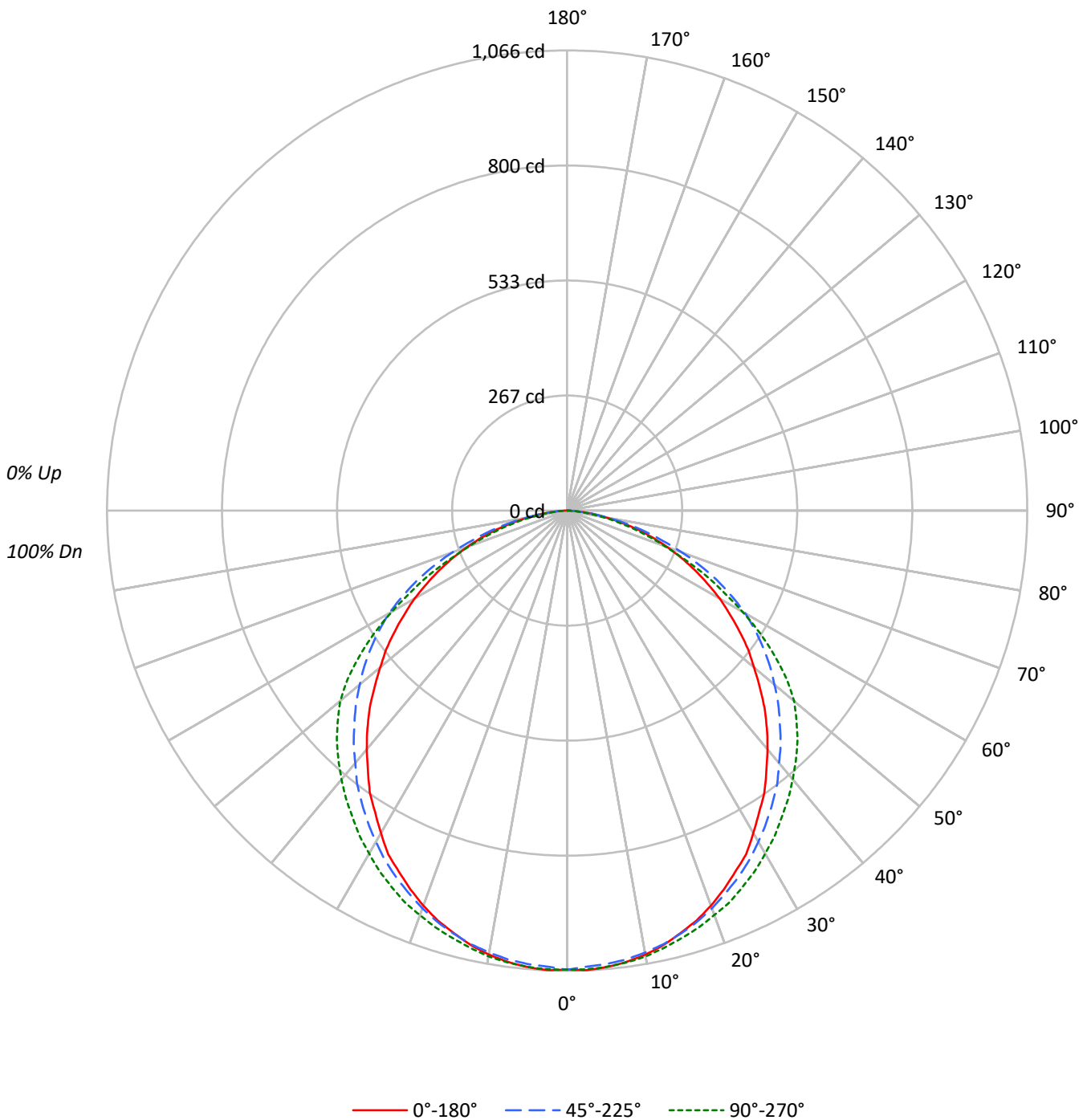
Lumens per Lamp: N/A  
Luminaire Lumens: 2949.2 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 24.53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



TEST NUMBER: P219272  
CATALOG NUMBER: 14AC-LD5-29-UNV-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P219272

CATALOG NUMBER: 14AC-LD5-29-UNV-L830-CD1-U

**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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2862	2862	2862
5°	2861	2826	2840
10°	2842	2797	2816
15°	2804	2762	2782
20°	2764	2720	2755
25°	2707	2673	2729
30°	2642	2619	2695
35°	2573	2564	2661
40°	2485	2498	2635
45°	2401	2436	2611
50°	2296	2375	2567
55°	2207	2312	2409
60°	2106	2225	2151
65°	1973	2054	1849
70°	1817	1786	1489
75°	1603	1456	1158
80°	1235	1012	774
85°	778	433	295



TEST NUMBER: P219272

CATALOG NUMBER: 14AC-LD5-29-UNV-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.6	3.4
10°-20°	287.4	9.7
20°-30°	433.7	14.7
30°-40°	520.0	17.6
40°-50°	539.6	18.3
50°-60°	487.1	16.5
60°-70°	354.8	12.0
70°-80°	186.1	6.3
80°-90°	39.8	1.4
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°	821.7	27.9
0°-40°	1341.7	45.5
0°-60°	2368.5	80.3
0°-90°	2949.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2949.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1061	1059	1054	1061	1061	101
15°	1013	1013	1015	1026	1025	286
25°	922	927	937	958	962	425
35°	797	805	829	860	867	497
45°	647	661	697	740	755	498
55°	487	504	555	588	587	436
65°	326	346	384	366	353	323
75°	169	192	186	161	153	177
85°	32	39	28	22	20	41
90°	0	0	0	0	0	



TEST NUMBER: P219272

CATALOG NUMBER: 14AC-LD5-29-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1063.5	1063.5	1063.5	1063.5	1063.5
2.5°	1065.6	1062.8	1057.2	1064.2	1063.5
5°	1061.4	1059.3	1054.3	1061.4	1060.7
7.5°	1054.3	1052.9	1048.7	1056.5	1055.7
10°	1044.5	1042.3	1039.5	1048.0	1048.7
12.5°	1031.1	1030.4	1028.9	1038.1	1037.4
15°	1013.4	1013.4	1014.8	1026.1	1025.4
17.5°	995.8	995.8	999.3	1012.0	1012.7
20°	973.9	975.3	980.3	995.8	997.2
22.5°	949.3	950.7	959.1	978.9	982.4
25°	922.5	927.4	937.3	957.7	961.9
27.5°	897.8	898.5	913.3	935.9	941.5
30°	862.5	872.4	885.8	911.9	917.5
32.5°	828.0	837.8	858.3	886.5	894.2
35°	796.9	804.7	828.7	859.7	866.7
37.5°	758.1	770.8	799.0	831.5	841.4
40°	722.2	733.5	763.8	800.4	813.1
42.5°	684.8	697.5	732.0	771.5	784.2
45°	646.7	660.8	696.8	740.5	754.6
47.5°	605.1	622.7	663.6	708.1	720.8
50°	564.9	583.2	627.0	673.5	686.2
52.5°	528.2	544.4	592.4	635.4	641.1
55°	487.3	504.2	555.0	588.2	586.8
57.5°	446.4	465.5	516.2	536.7	531.0
60°	408.3	426.0	476.7	481.0	469.0
62.5°	366.0	386.5	429.5	423.1	408.3
65°	326.5	346.3	383.7	366.0	352.6
67.5°	286.3	307.5	334.3	308.2	292.7
70°	246.8	272.2	282.1	253.9	241.2
72.5°	206.6	233.4	232.7	205.9	195.4
75°	168.6	192.5	186.2	160.8	153.0
77.5°	128.4	152.3	140.3	121.3	114.2
80°	91.0	113.5	98.0	83.2	78.3
82.5°	62.1	75.5	61.4	48.7	46.5
85°	32.4	38.8	28.2	21.9	20.5
87.5°	12.0	11.3	9.9	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)