

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: P225534

Luminaire Tested: **14AC-LD5-25-RDP-UNV-L835-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: P225534
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-LD5-25-RDP-UNV-L835-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH RDP LENS
Light Source: (84)3500K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1747.1 lumens
Efficiency: N/A
Efficacy: 87.4 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

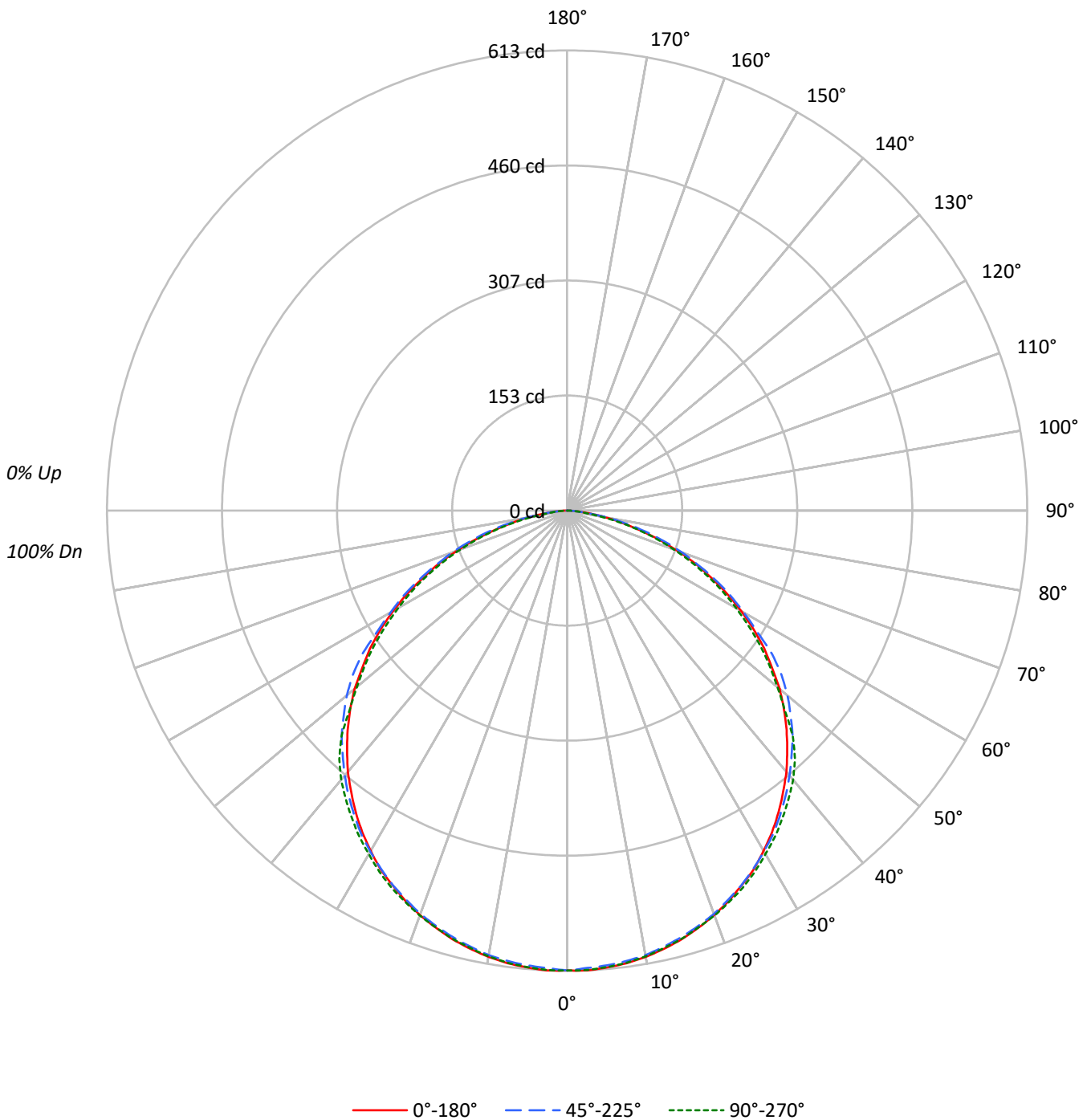
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225534

CATALOG NUMBER: 14AC-LD5-25-RDP-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225534

CATALOG NUMBER: 14AC-LD5-25-RDP-UNV-L835-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	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°	1720	1720	1720
5°	1722	1714	1721
10°	1721	1714	1719
15°	1718	1710	1717
20°	1713	1708	1715
25°	1706	1704	1717
30°	1697	1700	1713
35°	1683	1696	1714
40°	1666	1689	1716
45°	1642	1687	1689
50°	1615	1674	1597
55°	1570	1631	1539
60°	1503	1525	1458
65°	1407	1445	1369
70°	1281	1332	1239
75°	1069	1167	1050
80°	847	893	728
85°	551	477	422



TEST NUMBER: P225534

CATALOG NUMBER: 14AC-LD5-25-RDP-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	3.3
10°-20°	166.6	9.5
20°-30°	254.3	14.6
30°-40°	310.1	17.7
40°-50°	324.7	18.6
50°-60°	288.8	16.5
60°-70°	213.1	12.2
70°-80°	110.1	6.3
80°-90°	21.4	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°	478.9	27.4
0°-40°	789.0	45.2
0°-60°	1402.5	80.3
0°-90°	1747.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1747.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	613	613	613	613	613	
5°	611	610	608	610	610	58
15°	591	590	588	590	590	167
25°	551	551	550	554	554	254
35°	491	491	495	500	500	307
45°	413	416	425	429	425	319
55°	321	327	333	319	314	286
65°	212	227	218	210	206	210
75°	98	109	108	99	97	107
85°	17	19	15	14	13	22
90°	0	0	0	0	0	



TEST NUMBER: P225534

CATALOG NUMBER: 14AC-LD5-25-RDP-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	612.7	612.7	612.7	612.7	612.7
2.5°	613.3	612.7	609.9	612.7	612.7
5°	611.0	610.4	608.2	610.4	610.4
7.5°	608.2	607.6	605.3	607.6	607.6
10°	603.6	603.0	601.3	603.6	603.0
12.5°	597.9	597.9	595.1	597.9	596.8
15°	591.1	590.5	588.2	590.5	590.5
17.5°	582.5	582.0	580.3	583.1	582.0
20°	573.4	572.8	571.7	574.6	574.0
22.5°	562.6	562.6	560.9	564.3	564.3
25°	550.6	550.6	550.1	554.1	554.1
27.5°	538.7	537.5	537.5	541.5	542.1
30°	523.3	523.3	524.4	529.0	528.4
32.5°	507.9	508.5	510.8	514.8	515.3
35°	490.9	491.4	494.8	500.5	500.0
37.5°	472.6	474.3	478.3	484.6	484.6
40°	454.4	455.5	460.7	467.5	468.1
42.5°	433.9	436.8	442.4	450.4	449.3
45°	413.4	416.3	424.8	428.8	425.4
47.5°	391.8	395.2	403.7	404.3	392.9
50°	369.6	373.5	383.2	371.8	365.6
52.5°	343.9	351.3	359.9	343.9	340.0
55°	320.6	327.4	333.1	318.9	314.3
57.5°	294.4	303.5	299.5	292.7	287.0
60°	267.6	277.3	271.6	264.8	259.7
62.5°	240.3	251.1	245.4	238.6	234.0
65°	211.8	226.6	217.5	210.1	206.1
67.5°	185.1	199.3	188.5	182.8	178.8
70°	156.0	168.0	162.3	154.9	150.9
72.5°	127.6	136.7	135.0	127.0	124.1
75°	98.5	108.8	107.6	99.1	96.8
77.5°	74.0	83.7	80.3	73.5	70.6
80°	52.4	58.7	55.2	47.3	45.0
82.5°	31.9	37.0	31.3	26.8	24.5
85°	17.1	18.8	14.8	13.7	13.1
87.5°	6.3	6.3	6.3	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)