

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: P225530

Luminaire Tested: **14AC-LD5-20-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: P225530
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-LD5-20-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: 1415.3 lumens
Efficiency: N/A
Efficacy: 86.8 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

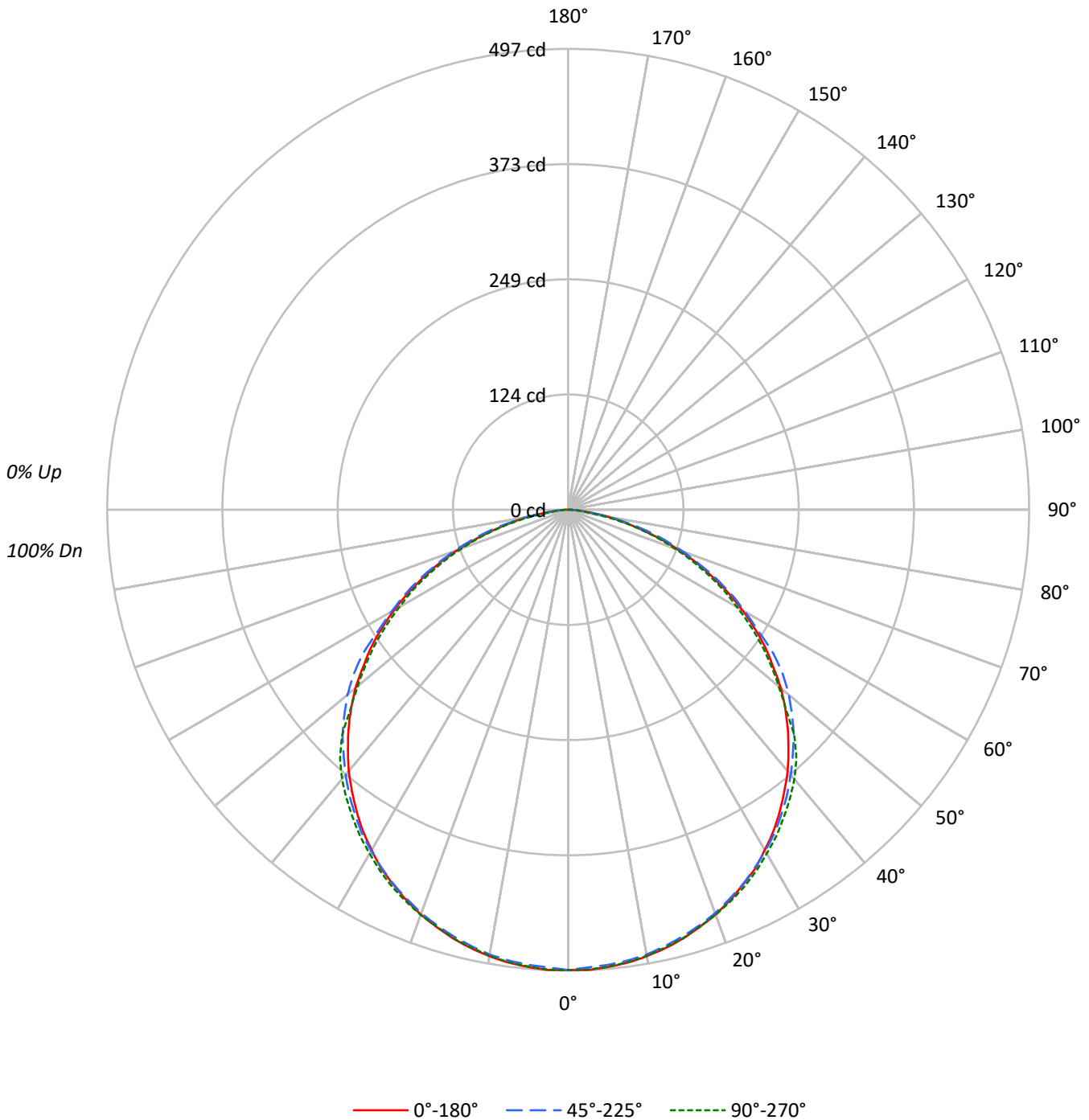
Input Watts (W): 16.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225530

CATALOG NUMBER: 14AC-LD5-20-RDP-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225530

CATALOG NUMBER: 14AC-LD5-20-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°	1394	1394	1394
5°	1395	1389	1394
10°	1394	1389	1393
15°	1392	1385	1391
20°	1388	1384	1390
25°	1382	1381	1390
30°	1374	1378	1388
35°	1363	1374	1388
40°	1349	1368	1390
45°	1330	1366	1368
50°	1308	1356	1294
55°	1271	1321	1246
60°	1218	1236	1182
65°	1140	1171	1110
70°	1038	1080	1003
75°	866	946	851
80°	686	723	589
85°	445	387	342



TEST NUMBER: P225530

CATALOG NUMBER: 14AC-LD5-20-RDP-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	3.3
10°-20°	135.0	9.5
20°-30°	206.0	14.6
30°-40°	251.2	17.7
40°-50°	263.0	18.6
50°-60°	234.0	16.5
60°-70°	172.6	12.2
70°-80°	89.2	6.3
80°-90°	17.3	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°	388.0	27.4
0°-40°	639.2	45.2
0°-60°	1136.2	80.3
0°-90°	1415.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1415.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	496	496	496	496	496	
5°	495	494	493	494	494	47
15°	479	478	476	478	478	135
25°	446	446	446	449	449	206
35°	398	398	401	406	405	249
45°	335	337	344	347	345	258
55°	260	265	270	258	255	231
65°	172	184	176	170	167	170
75°	80	88	87	80	78	86
85°	14	15	12	11	11	18
90°	0	0	0	0	0	



TEST NUMBER: P225530

CATALOG NUMBER: 14AC-LD5-20-RDP-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	496.4	496.4	496.4	496.4	496.4
2.5°	496.8	496.4	494.1	496.4	496.4
5°	495.0	494.5	492.7	494.5	494.5
7.5°	492.7	492.2	490.4	492.2	492.2
10°	489.0	488.5	487.1	489.0	488.5
12.5°	484.4	484.4	482.1	484.4	483.4
15°	478.8	478.4	476.5	478.4	478.4
17.5°	471.9	471.4	470.1	472.4	471.4
20°	464.5	464.1	463.1	465.4	465.0
22.5°	455.8	455.8	454.4	457.1	457.1
25°	446.1	446.1	445.6	448.8	448.8
27.5°	436.4	435.5	435.5	438.7	439.2
30°	423.9	423.9	424.9	428.5	428.1
32.5°	411.5	411.9	413.8	417.0	417.5
35°	397.6	398.1	400.9	405.5	405.0
37.5°	382.9	384.3	387.5	392.6	392.6
40°	368.1	369.0	373.2	378.7	379.2
42.5°	351.5	353.8	358.4	364.9	364.0
45°	334.9	337.2	344.1	347.4	344.6
47.5°	317.4	320.1	327.1	327.5	318.3
50°	299.4	302.6	310.5	301.2	296.2
52.5°	278.6	284.6	291.5	278.6	275.4
55°	259.7	265.2	269.9	258.3	254.6
57.5°	238.5	245.9	242.6	237.1	232.5
60°	216.8	224.7	220.0	214.5	210.4
62.5°	194.7	203.4	198.8	193.3	189.6
65°	171.6	183.6	176.2	170.2	167.0
67.5°	149.9	161.5	152.7	148.1	144.8
70°	126.4	136.1	131.5	125.5	122.2
72.5°	103.3	110.7	109.3	102.9	100.6
75°	79.8	88.1	87.2	80.3	78.4
77.5°	60.0	67.8	65.0	59.5	57.2
80°	42.4	47.5	44.7	38.3	36.4
82.5°	25.8	30.0	25.4	21.7	19.8
85°	13.8	15.2	12.0	11.1	10.6
87.5°	5.1	5.1	5.1	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)