

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: P225529

Luminaire Tested: **14AC-LD5-20-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: P225529
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-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: 1402.3 lumens
Efficiency: N/A
Efficacy: 86.0 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

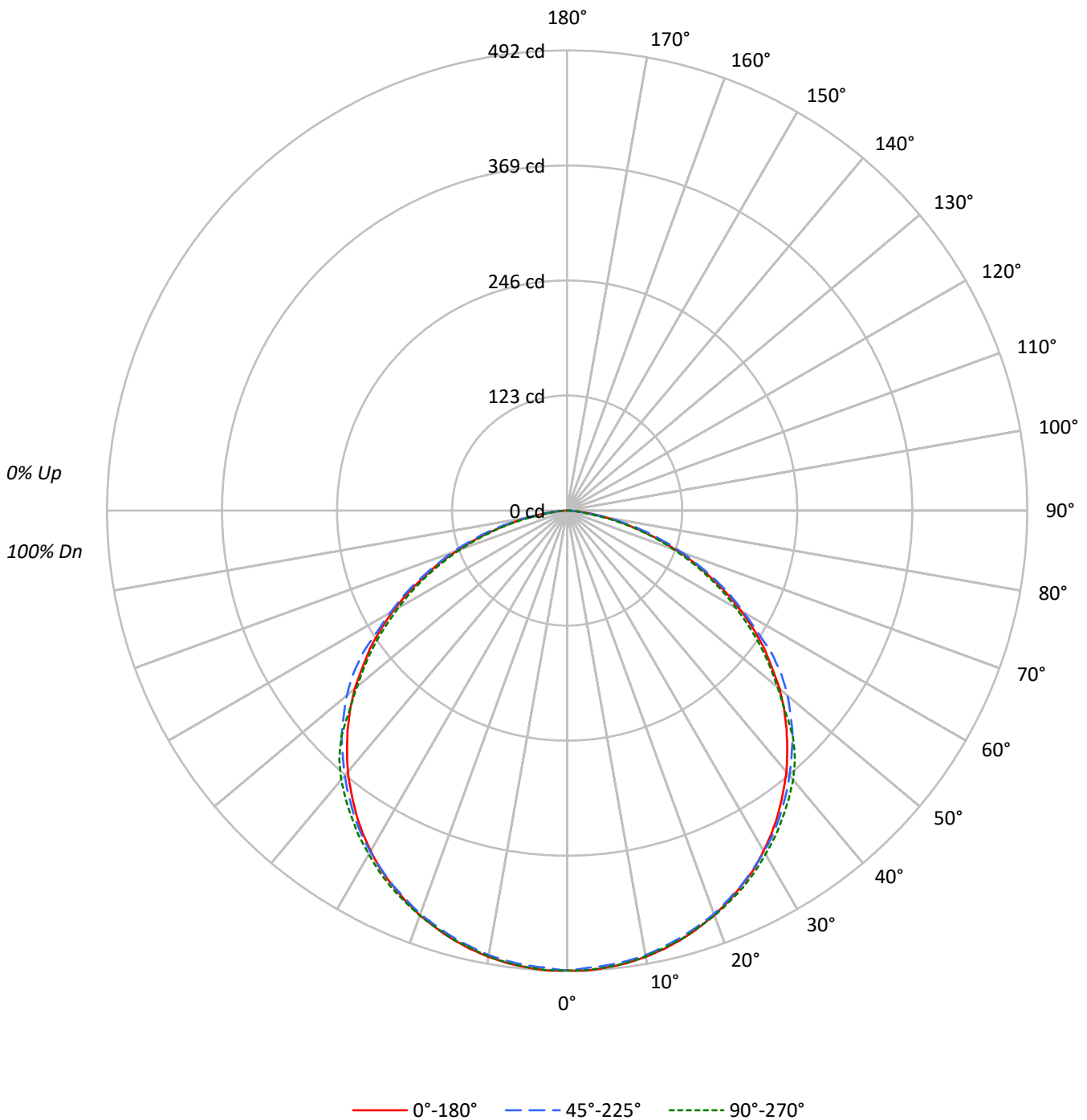
Input Watts (W): 16.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225529

CATALOG NUMBER: 14AC-LD5-20-RDP-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225529

CATALOG NUMBER: 14AC-LD5-20-RDP-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	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°	1381	1381	1381
5°	1382	1376	1381
10°	1381	1376	1380
15°	1379	1372	1378
20°	1375	1371	1377
25°	1369	1368	1378
30°	1362	1365	1375
35°	1351	1362	1376
40°	1337	1356	1377
45°	1318	1354	1356
50°	1296	1344	1282
55°	1260	1309	1235
60°	1206	1224	1170
65°	1130	1160	1100
70°	1028	1070	994
75°	858	937	843
80°	679	716	584
85°	441	383	338



TEST NUMBER: P225529

CATALOG NUMBER: 14AC-LD5-20-RDP-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	3.3
10°-20°	133.7	9.5
20°-30°	204.1	14.6
30°-40°	248.9	17.7
40°-50°	260.6	18.6
50°-60°	231.8	16.5
60°-70°	171.0	12.2
70°-80°	88.4	6.3
80°-90°	17.2	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°	384.4	27.4
0°-40°	633.3	45.2
0°-60°	1125.7	80.3
0°-90°	1402.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1402.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	490	490	488	490	490	47
15°	474	474	472	474	474	134
25°	442	442	442	445	445	204
35°	394	394	397	402	401	246
45°	332	334	341	344	341	256
55°	257	263	267	256	252	229
65°	170	182	175	169	166	169
75°	79	87	86	80	78	85
85°	14	15	12	11	10	18
90°	0	0	0	0	0	



TEST NUMBER: P225529

CATALOG NUMBER: 14AC-LD5-20-RDP-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	491.8	491.8	491.8	491.8	491.8
2.5°	492.3	491.8	489.5	491.8	491.8
5°	490.4	490.0	488.1	490.0	490.0
7.5°	488.1	487.7	485.9	487.7	487.7
10°	484.5	484.0	482.7	484.5	484.0
12.5°	479.9	479.9	477.6	479.9	479.0
15°	474.4	474.0	472.1	474.0	474.0
17.5°	467.6	467.1	465.7	468.0	467.1
20°	460.3	459.8	458.9	461.2	460.7
22.5°	451.6	451.6	450.2	452.9	452.9
25°	442.0	442.0	441.5	444.7	444.7
27.5°	432.4	431.5	431.5	434.7	435.1
30°	420.0	420.0	421.0	424.6	424.2
32.5°	407.7	408.2	410.0	413.2	413.6
35°	394.0	394.4	397.2	401.8	401.3
37.5°	379.4	380.7	383.9	389.0	389.0
40°	364.7	365.6	369.8	375.2	375.7
42.5°	348.3	350.6	355.1	361.5	360.6
45°	331.8	334.1	341.0	344.2	341.4
47.5°	314.5	317.2	324.1	324.5	315.4
50°	296.6	299.8	307.6	298.5	293.4
52.5°	276.1	282.0	288.9	276.1	272.9
55°	257.3	262.8	267.4	256.0	252.3
57.5°	236.3	243.6	240.4	234.9	230.4
60°	214.8	222.6	218.0	212.5	208.4
62.5°	192.9	201.6	197.0	191.5	187.9
65°	170.0	181.9	174.6	168.7	165.5
67.5°	148.5	160.0	151.3	146.7	143.5
70°	125.2	134.8	130.3	124.3	121.1
72.5°	102.4	109.7	108.3	101.9	99.6
75°	79.1	87.3	86.4	79.5	77.7
77.5°	59.4	67.2	64.4	59.0	56.7
80°	42.0	47.1	44.3	37.9	36.1
82.5°	25.6	29.7	25.1	21.5	19.7
85°	13.7	15.1	11.9	11.0	10.5
87.5°	5.0	5.0	5.0	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)