

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: P225553

Luminaire Tested: **14AC-LD5-20-SQP-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: P225553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14AC-LD5-20-SQP-UNV-L830-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH SQP 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: 1349.3 lumens
Efficiency: N/A
Efficacy: 82.8 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

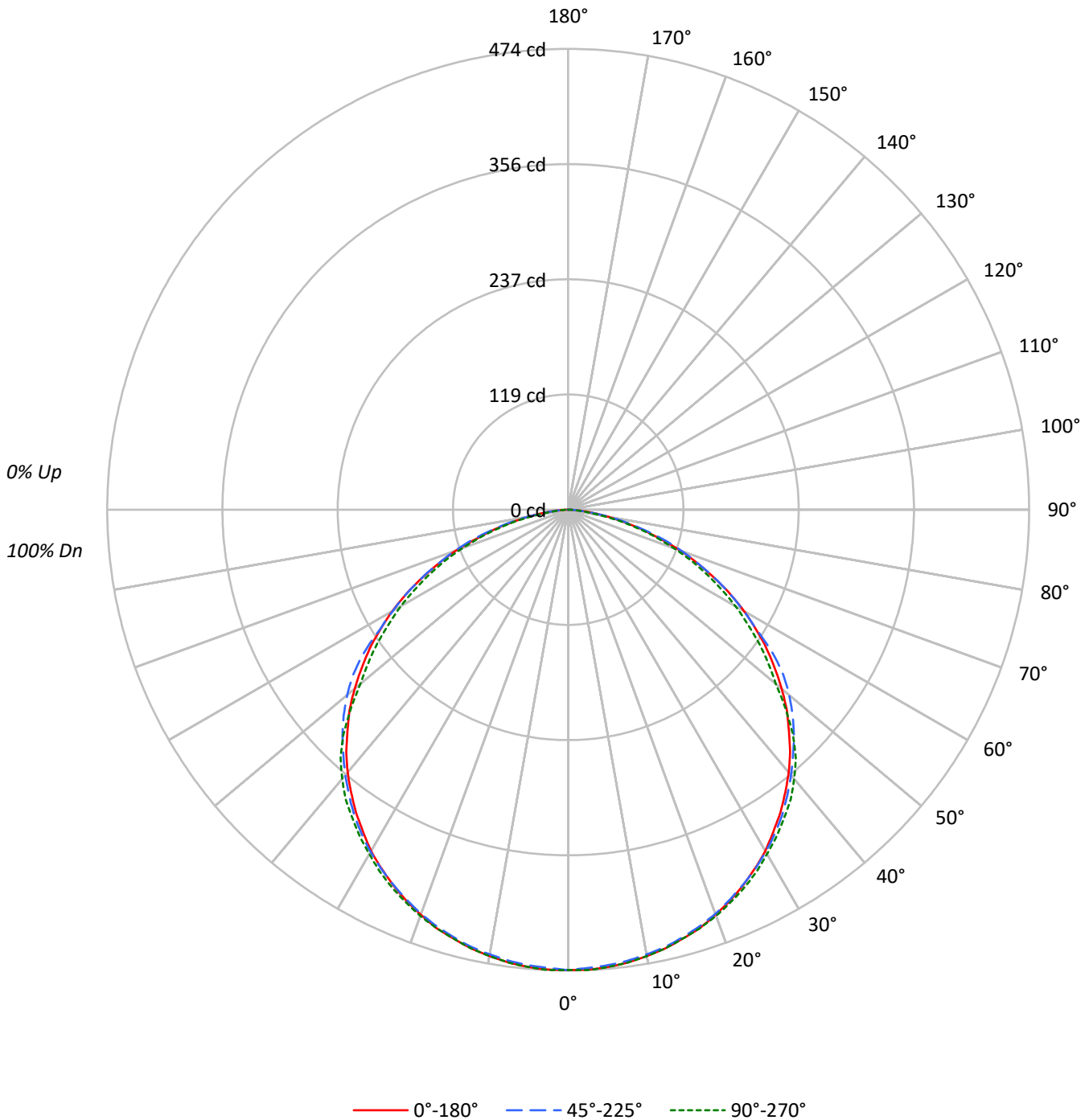
Input Watts (W): 16.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225553

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

Luminous Intensity Polar Plot





TEST NUMBER: P225553

CATALOG NUMBER: 14AC-LD5-20-SQP-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	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	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	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1330	1330	1330
5°	1331	1326	1331
10°	1329	1324	1329
15°	1327	1323	1327
20°	1325	1322	1329
25°	1320	1318	1328
30°	1314	1317	1326
35°	1304	1315	1327
40°	1293	1307	1325
45°	1274	1303	1298
50°	1252	1296	1218
55°	1219	1255	1172
60°	1173	1170	1116
65°	1099	1106	1044
70°	1009	1021	946
75°	848	887	808
80°	673	687	569
85°	441	383	325



TEST NUMBER: P225553

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	3.3
10°-20°	128.9	9.6
20°-30°	196.8	14.6
30°-40°	240.1	17.8
40°-50°	251.1	18.6
50°-60°	222.3	16.5
60°-70°	163.7	12.1
70°-80°	84.7	6.3
80°-90°	16.9	1.3
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°	370.5	27.5
0°-40°	610.6	45.3
0°-60°	1084.0	80.3
0°-90°	1349.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1349.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	474	474	474	474	474	
5°	472	472	470	472	472	45
15°	457	457	455	457	457	129
25°	426	426	426	428	429	196
35°	380	381	384	387	387	238
45°	321	324	328	331	327	248
55°	249	254	256	243	240	222
65°	165	176	166	160	157	164
75°	78	84	82	77	74	83
85°	14	15	12	10	10	18
90°	0	0	0	0	0	



TEST NUMBER: P225553

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	473.5	473.5	473.5	473.5	473.5
2.5°	473.5	473.5	471.7	473.5	473.9
5°	472.1	472.1	470.3	472.1	472.1
7.5°	469.8	469.4	468.0	469.8	469.8
10°	466.2	466.2	464.4	466.6	466.2
12.5°	462.1	461.6	460.7	462.5	462.1
15°	456.6	456.6	455.2	457.0	456.6
17.5°	451.1	450.6	449.3	451.1	451.1
20°	443.3	442.9	442.4	444.2	444.7
22.5°	435.1	434.6	434.2	436.9	436.9
25°	426.0	426.0	425.5	428.2	428.7
27.5°	415.9	415.9	416.4	420.0	419.6
30°	405.4	405.4	406.3	409.0	409.0
32.5°	392.6	393.5	395.3	398.5	398.5
35°	380.3	381.2	383.5	387.1	387.1
37.5°	366.5	367.9	370.2	374.8	375.7
40°	352.8	353.7	356.5	361.5	361.5
42.5°	337.8	338.7	342.3	347.3	346.4
45°	320.8	323.6	328.2	330.9	326.8
47.5°	304.8	306.7	313.1	309.9	303.0
50°	286.6	290.2	296.6	285.2	278.8
52.5°	267.8	271.9	278.8	262.8	259.1
55°	249.1	254.1	256.4	243.1	239.5
57.5°	229.0	234.5	229.9	222.1	218.5
60°	208.9	215.3	208.4	201.1	198.8
62.5°	187.8	195.2	187.4	181.0	177.8
65°	165.4	175.5	166.4	160.0	157.2
67.5°	143.5	154.0	144.4	138.9	137.1
70°	122.9	128.9	124.3	118.8	115.2
72.5°	98.3	104.2	103.3	97.3	95.1
75°	78.2	83.6	81.8	76.8	74.5
77.5°	58.0	64.0	62.2	56.2	55.3
80°	41.6	45.7	42.5	37.0	35.2
82.5°	26.1	29.3	25.1	21.0	20.1
85°	13.7	14.6	11.9	10.5	10.1
87.5°	4.6	5.0	5.0	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)