

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: P225583

Luminaire Tested: **22AC-LD5-20-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: P225583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35761)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22AC-LD5-20-UNV-L835-CD1-U
Description: METALUX Accord 2X2 LED TROFFER
Light Source: (84)3500K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2076.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

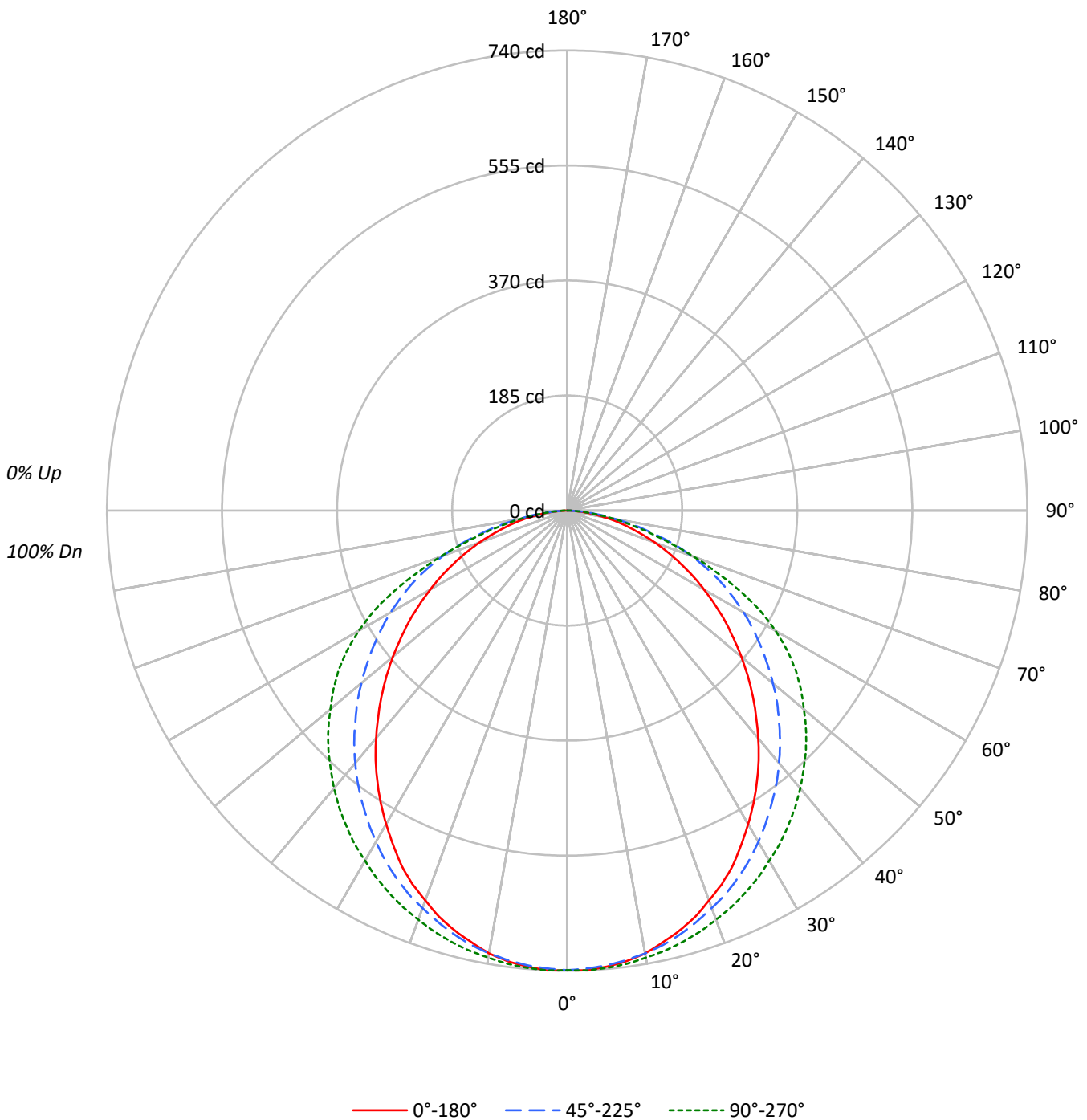
Input Watts (W): 16.73
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225583

CATALOG NUMBER: 22AC-LD5-20-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225583

CATALOG NUMBER: 22AC-LD5-20-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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1989	1989	1989
5°	1988	1983	1994
10°	1976	1976	1995
15°	1948	1964	2001
20°	1910	1948	2005
25°	1871	1933	2013
30°	1809	1911	2020
35°	1748	1886	2034
40°	1679	1862	2048
45°	1606	1834	2067
50°	1532	1809	2081
55°	1454	1783	2107
60°	1367	1765	2083
65°	1280	1738	1961
70°	1180	1668	1707
75°	1061	1497	1414
80°	914	1240	1147
85°	710	834	803



TEST NUMBER: P225583

CATALOG NUMBER: 22AC-LD5-20-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	3.4
10°-20°	199.4	9.6
20°-30°	300.5	14.5
30°-40°	359.8	17.3
40°-50°	372.1	17.9
50°-60°	339.8	16.4
60°-70°	260.0	12.5
70°-80°	141.4	6.8
80°-90°	33.1	1.6
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°	569.8	27.4
0°-40°	929.6	44.8
0°-60°	1641.5	79.1
0°-90°	2076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	736	735	734	736	738	70
15°	699	700	705	713	718	197
25°	630	635	651	669	678	289
35°	532	544	574	605	619	333
45°	422	439	482	525	543	326
55°	310	334	380	430	449	277
65°	201	224	273	304	308	199
75°	102	126	144	141	136	109
85°	23	26	27	26	26	27
90°	0	0	0	0	0	



TEST NUMBER: P225583

CATALOG NUMBER: 22AC-LD5-20-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	739.1	739.1	739.1	739.1	739.1
2.5°	740.1	738.1	737.1	739.1	740.1
5°	736.1	735.1	734.1	736.1	738.1
7.5°	731.1	729.1	729.1	733.1	735.1
10°	723.1	721.1	723.1	728.1	730.1
12.5°	711.1	712.1	715.1	722.1	725.1
15°	699.1	700.1	705.1	713.1	718.1
17.5°	685.1	687.1	693.1	705.1	710.1
20°	667.1	670.1	680.1	694.1	700.1
22.5°	650.1	653.1	667.1	683.1	690.1
25°	630.1	635.1	651.1	669.1	678.1
27.5°	606.1	615.1	634.1	655.1	665.1
30°	582.1	592.1	615.1	640.1	650.1
32.5°	558.1	568.1	595.1	624.1	636.1
35°	532.1	544.1	574.1	605.1	619.1
37.5°	506.0	520.1	553.1	587.1	602.1
40°	478.0	494.0	530.1	568.1	583.1
42.5°	450.0	465.0	507.0	546.1	563.1
45°	422.0	439.0	482.0	525.1	543.1
47.5°	394.0	412.0	458.0	502.0	521.1
50°	366.0	386.0	432.0	479.0	497.0
52.5°	337.0	358.0	406.0	455.0	474.0
55°	310.0	334.0	380.0	430.0	449.0
57.5°	282.0	306.0	354.0	404.0	420.0
60°	254.0	276.0	328.0	374.0	387.0
62.5°	228.0	250.0	300.0	341.0	351.0
65°	201.0	224.0	273.0	304.0	308.0
67.5°	175.0	198.0	243.0	266.0	261.0
70°	150.0	173.0	212.0	220.0	217.0
72.5°	125.0	149.0	181.0	180.0	173.0
75°	102.0	126.0	144.0	141.0	136.0
77.5°	82.0	101.0	112.0	107.0	103.0
80°	59.0	77.0	80.0	76.0	74.0
82.5°	41.0	50.0	52.0	50.0	48.0
85°	23.0	26.0	27.0	26.0	26.0
87.5°	7.0	7.0	9.0	11.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)