

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: P225559

Luminaire Tested: **14AC-LD5-25-SQP-UNV-L840-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: P225559
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-LD5-25-SQP-UNV-L840-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH SQP LENS
Light Source: (84)4000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1714.6 lumens
Efficiency: N/A
Efficacy: 85.7 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

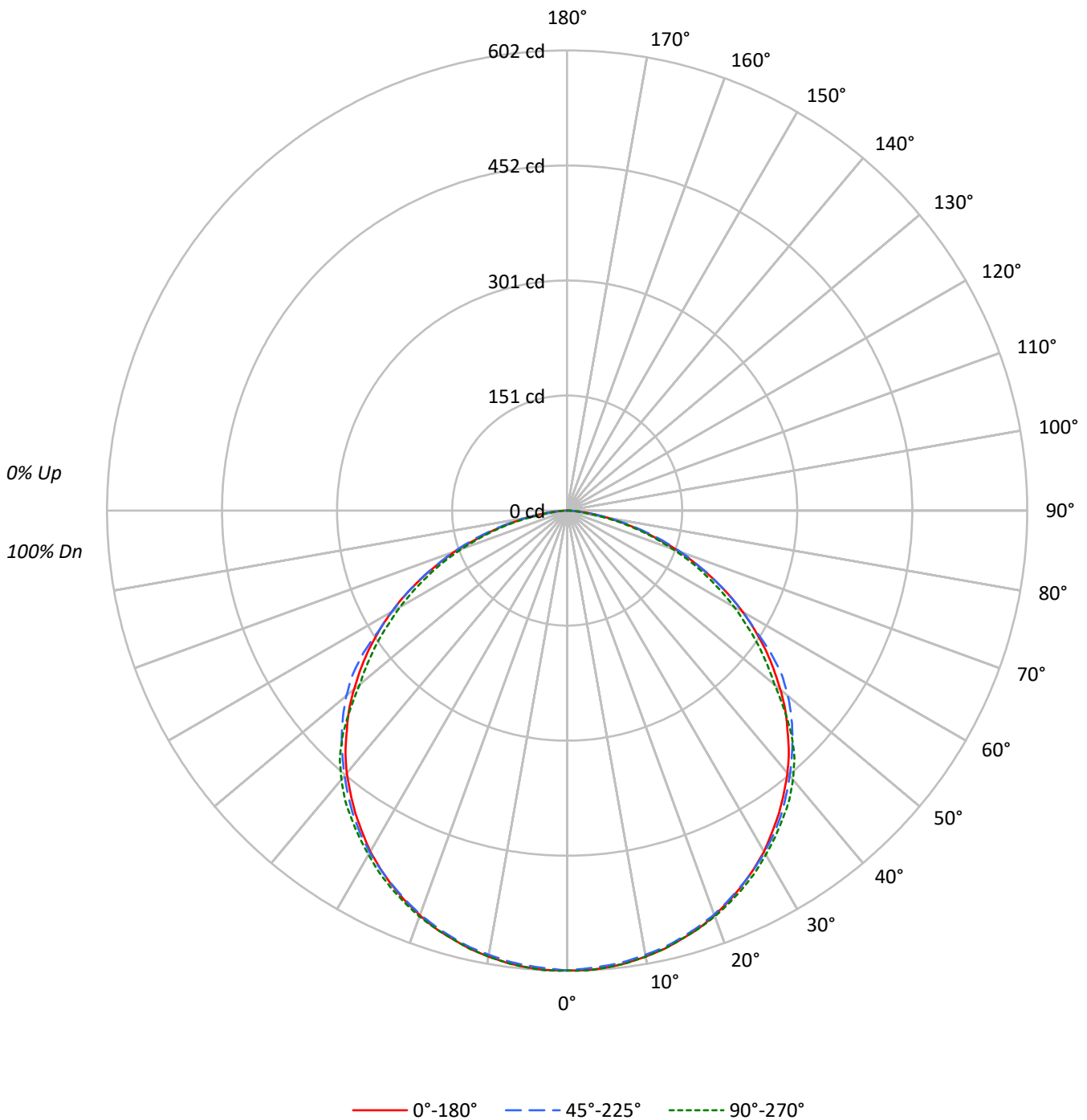
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	1690	1690	1690
5°	1691	1684	1691
10°	1689	1683	1689
15°	1687	1682	1687
20°	1684	1680	1689
25°	1677	1675	1688
30°	1670	1674	1685
35°	1656	1670	1686
40°	1644	1660	1684
45°	1619	1656	1649
50°	1591	1646	1548
55°	1549	1595	1490
60°	1490	1487	1419
65°	1397	1405	1328
70°	1282	1297	1202
75°	1077	1128	1027
80°	855	873	723
85°	561	486	412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.0	3.3
10°-20°	163.8	9.6
20°-30°	250.1	14.6
30°-40°	305.1	17.8
40°-50°	319.1	18.6
50°-60°	282.5	16.5
60°-70°	208.0	12.1
70°-80°	107.7	6.3
80°-90°	21.5	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°	470.8	27.5
0°-40°	775.9	45.3
0°-60°	1377.4	80.3
0°-90°	1714.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1714.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	600	600	598	600	600	57
15°	580	580	578	581	580	164
25°	541	541	541	544	545	250
35°	483	484	487	492	492	302
45°	408	411	417	420	415	315
55°	316	323	326	309	304	282
65°	210	223	211	203	200	208
75°	99	106	104	98	95	106
85°	17	19	15	13	13	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	601.7	601.7	601.7	601.7	601.7
2.5°	601.7	601.7	599.4	601.7	602.3
5°	599.9	599.9	597.6	599.9	599.9
7.5°	597.0	596.5	594.7	597.0	597.0
10°	592.4	592.4	590.1	593.0	592.4
12.5°	587.2	586.6	585.4	587.7	587.2
15°	580.2	580.2	578.5	580.8	580.2
17.5°	573.2	572.6	570.9	573.2	573.2
20°	563.4	562.8	562.2	564.5	565.1
22.5°	552.9	552.3	551.7	555.2	555.2
25°	541.3	541.3	540.7	544.2	544.8
27.5°	528.5	528.5	529.1	533.7	533.2
30°	515.1	515.1	516.3	519.8	519.8
32.5°	498.9	500.0	502.4	506.4	506.4
35°	483.2	484.4	487.3	491.9	491.9
37.5°	465.8	467.5	470.4	476.2	477.4
40°	448.4	449.5	453.0	459.4	459.4
42.5°	429.2	430.4	435.0	441.4	440.2
45°	407.7	411.2	417.0	420.5	415.3
47.5°	387.4	389.7	397.8	393.8	385.1
50°	364.1	368.8	376.9	362.4	354.3
52.5°	340.3	345.6	354.3	333.9	329.3
55°	316.5	322.9	325.8	309.0	304.3
57.5°	291.0	297.9	292.1	282.3	277.6
60°	265.4	273.5	264.8	255.5	252.6
62.5°	238.7	248.0	238.1	230.0	225.9
65°	210.2	223.0	211.4	203.3	199.8
67.5°	182.4	195.7	183.5	176.6	174.2
70°	156.2	163.8	158.0	151.0	146.4
72.5°	124.9	132.4	131.3	123.7	120.8
75°	99.3	106.3	104.0	97.6	94.7
77.5°	73.8	81.3	79.0	71.4	70.3
80°	52.9	58.1	54.0	47.0	44.7
82.5°	33.1	37.2	31.9	26.7	25.6
85°	17.4	18.6	15.1	13.4	12.8
87.5°	5.8	6.4	6.4	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)