

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: P225535

Luminaire Tested: **14AC-LD5-25-RDP-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: P225535
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-LD5-25-RDP-UNV-L840-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH RDP 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: 1782.0 lumens
Efficiency: N/A
Efficacy: 89.1 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

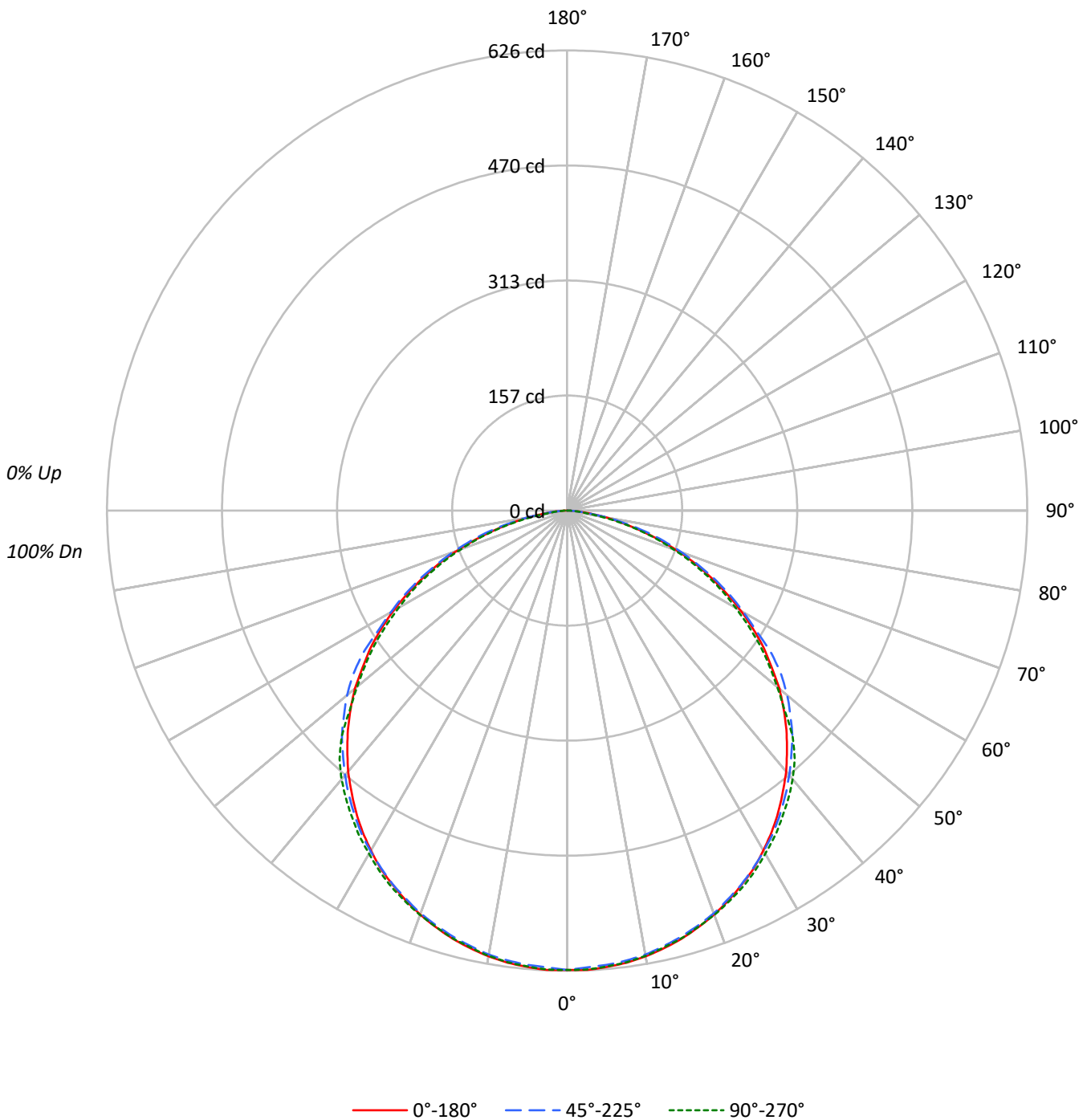
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1755	1755	1755
5°	1757	1748	1755
10°	1756	1749	1754
15°	1753	1744	1751
20°	1748	1742	1749
25°	1740	1738	1751
30°	1731	1734	1748
35°	1716	1730	1748
40°	1699	1722	1750
45°	1675	1721	1723
50°	1646	1708	1629
55°	1601	1664	1570
60°	1533	1556	1487
65°	1436	1474	1397
70°	1306	1359	1264
75°	1090	1191	1071
80°	864	910	742
85°	561	486	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	3.3
10°-20°	169.9	9.5
20°-30°	259.4	14.6
30°-40°	316.3	17.7
40°-50°	331.2	18.6
50°-60°	294.6	16.5
60°-70°	217.4	12.2
70°-80°	112.3	6.3
80°-90°	21.8	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°	488.5	27.4
0°-40°	804.7	45.2
0°-60°	1430.5	80.3
0°-90°	1782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	625	625	625	625	625	
5°	623	623	620	623	623	59
15°	603	602	600	602	602	170
25°	562	562	561	565	565	259
35°	501	501	505	510	510	313
45°	422	425	433	437	434	325
55°	327	334	340	325	321	291
65°	216	231	222	214	210	214
75°	100	111	110	101	99	109
85°	17	19	15	14	13	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	624.9	624.9	624.9	624.9	624.9
2.5°	625.5	624.9	622.0	624.9	624.9
5°	623.2	622.6	620.3	622.6	622.6
7.5°	620.3	619.7	617.4	619.7	619.7
10°	615.7	615.1	613.3	615.7	615.1
12.5°	609.8	609.8	606.9	609.8	608.7
15°	602.9	602.3	600.0	602.3	602.3
17.5°	594.2	593.6	591.8	594.7	593.6
20°	584.9	584.3	583.1	586.0	585.4
22.5°	573.8	573.8	572.1	575.6	575.6
25°	561.6	561.6	561.1	565.1	565.1
27.5°	549.4	548.3	548.3	552.3	552.9
30°	533.8	533.8	534.9	539.6	539.0
32.5°	518.1	518.7	521.0	525.0	525.6
35°	500.7	501.2	504.7	510.5	509.9
37.5°	482.1	483.8	487.9	494.3	494.3
40°	463.5	464.6	469.9	476.8	477.4
42.5°	442.6	445.5	451.3	459.4	458.3
45°	421.7	424.6	433.3	437.3	433.9
47.5°	399.6	403.1	411.8	412.4	400.8
50°	376.9	381.0	390.9	379.3	372.9
52.5°	350.8	358.4	367.1	350.8	346.7
55°	327.0	334.0	339.8	325.2	320.6
57.5°	300.3	309.6	305.5	298.5	292.7
60°	273.0	282.9	277.0	270.1	264.8
62.5°	245.1	256.1	250.3	243.4	238.7
65°	216.1	231.2	221.9	214.3	210.3
67.5°	188.8	203.3	192.2	186.4	182.4
70°	159.1	171.3	165.5	158.0	153.9
72.5°	130.1	139.4	137.7	129.5	126.6
75°	100.5	110.9	109.8	101.1	98.7
77.5°	75.5	85.4	81.9	74.9	72.0
80°	53.4	59.8	56.3	48.2	45.9
82.5°	32.5	37.8	31.9	27.3	25.0
85°	17.4	19.2	15.1	13.9	13.4
87.5°	6.4	6.4	6.4	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)