

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: P225531

Luminaire Tested: **14AC-LD5-20-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: P225531
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-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: 1443.4 lumens
Efficiency: N/A
Efficacy: 88.6 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

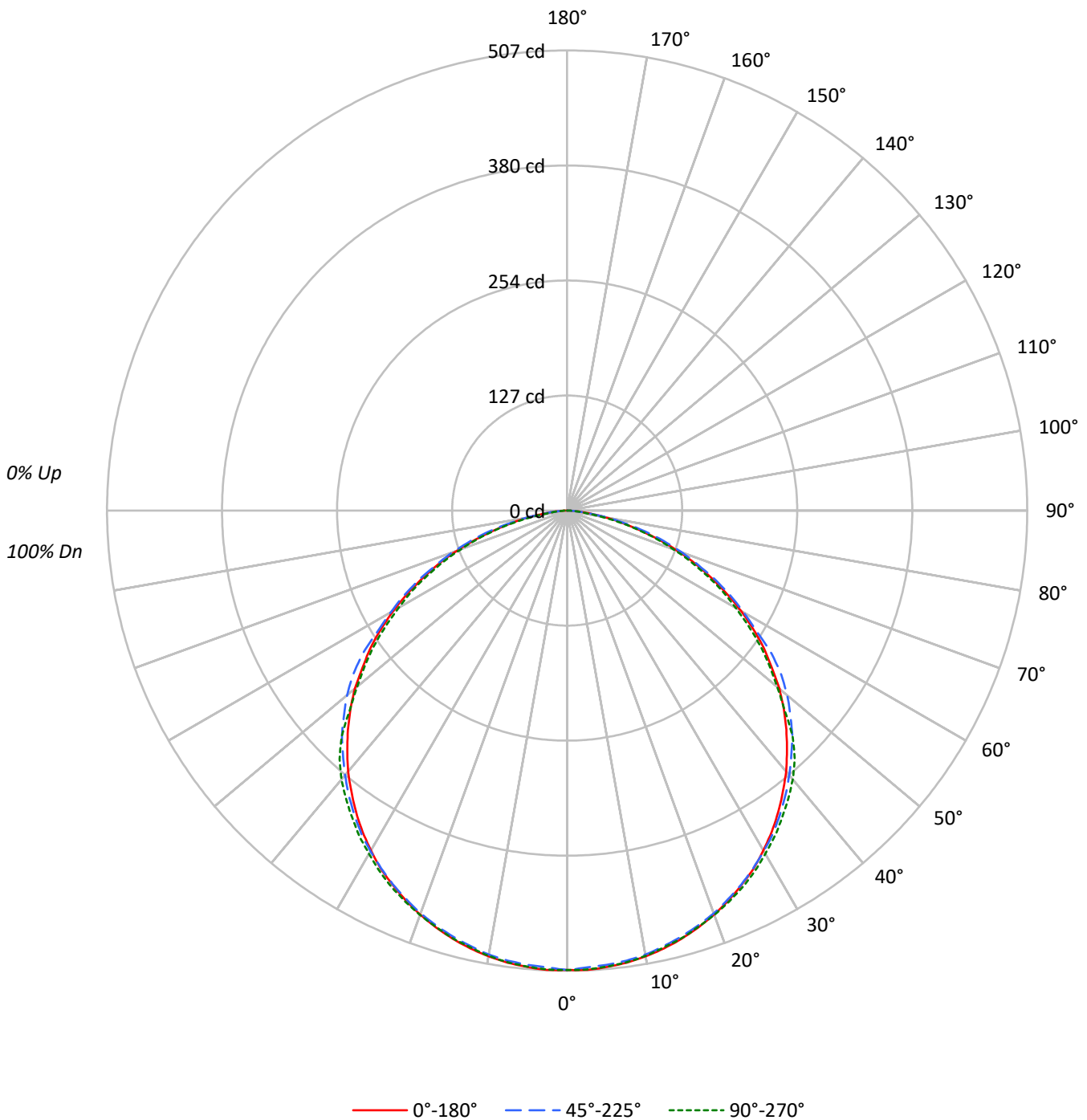
Input Watts (W): 16.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1421	1421	1421
5°	1423	1416	1421
10°	1422	1417	1421
15°	1420	1413	1418
20°	1416	1411	1417
25°	1409	1408	1418
30°	1402	1405	1416
35°	1390	1401	1416
40°	1376	1395	1417
45°	1356	1393	1395
50°	1334	1383	1319
55°	1297	1347	1271
60°	1242	1260	1205
65°	1163	1194	1132
70°	1058	1101	1024
75°	883	964	868
80°	700	737	602
85°	454	393	348



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	3.3
10°-20°	137.6	9.5
20°-30°	210.1	14.6
30°-40°	256.2	17.7
40°-50°	268.2	18.6
50°-60°	238.6	16.5
60°-70°	176.1	12.2
70°-80°	91.0	6.3
80°-90°	17.7	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°	395.7	27.4
0°-40°	651.8	45.2
0°-60°	1158.7	80.3
0°-90°	1443.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1443.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	506	506	506	506	506	
5°	505	504	502	504	504	48
15°	488	488	486	488	488	138
25°	455	455	454	458	458	210
35°	406	406	409	414	413	254
45°	342	344	351	354	351	263
55°	265	270	275	263	260	236
65°	175	187	180	174	170	173
75°	81	90	89	82	80	88
85°	14	16	12	11	11	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	506.2	506.2	506.2	506.2	506.2
2.5°	506.7	506.2	503.8	506.2	506.2
5°	504.8	504.3	502.4	504.3	504.3
7.5°	502.4	502.0	500.1	502.0	502.0
10°	498.7	498.2	496.8	498.7	498.2
12.5°	494.0	494.0	491.6	494.0	493.0
15°	488.3	487.8	486.0	487.8	487.8
17.5°	481.3	480.8	479.4	481.7	480.8
20°	473.7	473.3	472.3	474.7	474.2
22.5°	464.8	464.8	463.4	466.2	466.2
25°	454.9	454.9	454.4	457.7	457.7
27.5°	445.0	444.1	444.1	447.4	447.9
30°	432.3	432.3	433.3	437.0	436.6
32.5°	419.6	420.1	422.0	425.3	425.7
35°	405.5	406.0	408.8	413.5	413.0
37.5°	390.5	391.9	395.2	400.3	400.3
40°	375.4	376.4	380.6	386.2	386.7
42.5°	358.5	360.8	365.5	372.1	371.2
45°	341.5	343.9	350.9	354.2	351.4
47.5°	323.7	326.5	333.5	334.0	324.6
50°	305.3	308.6	316.6	307.2	302.0
52.5°	284.1	290.3	297.3	284.1	280.9
55°	264.9	270.5	275.2	263.4	259.7
57.5°	243.2	250.7	247.5	241.8	237.1
60°	221.1	229.1	224.4	218.8	214.5
62.5°	198.5	207.5	202.8	197.1	193.4
65°	175.0	187.2	179.7	173.6	170.3
67.5°	152.9	164.7	155.7	151.0	147.7
70°	128.9	138.8	134.1	128.0	124.7
72.5°	105.4	112.9	111.5	104.9	102.6
75°	81.4	89.9	88.9	81.9	80.0
77.5°	61.2	69.2	66.3	60.7	58.3
80°	43.3	48.5	45.6	39.0	37.2
82.5°	26.3	30.6	25.9	22.1	20.2
85°	14.1	15.5	12.2	11.3	10.8
87.5°	5.2	5.2	5.2	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)