

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: P225555

Luminaire Tested: **14AC-LD5-20-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: P225555
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-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: 1388.8 lumens
Efficiency: N/A
Efficacy: 85.2 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

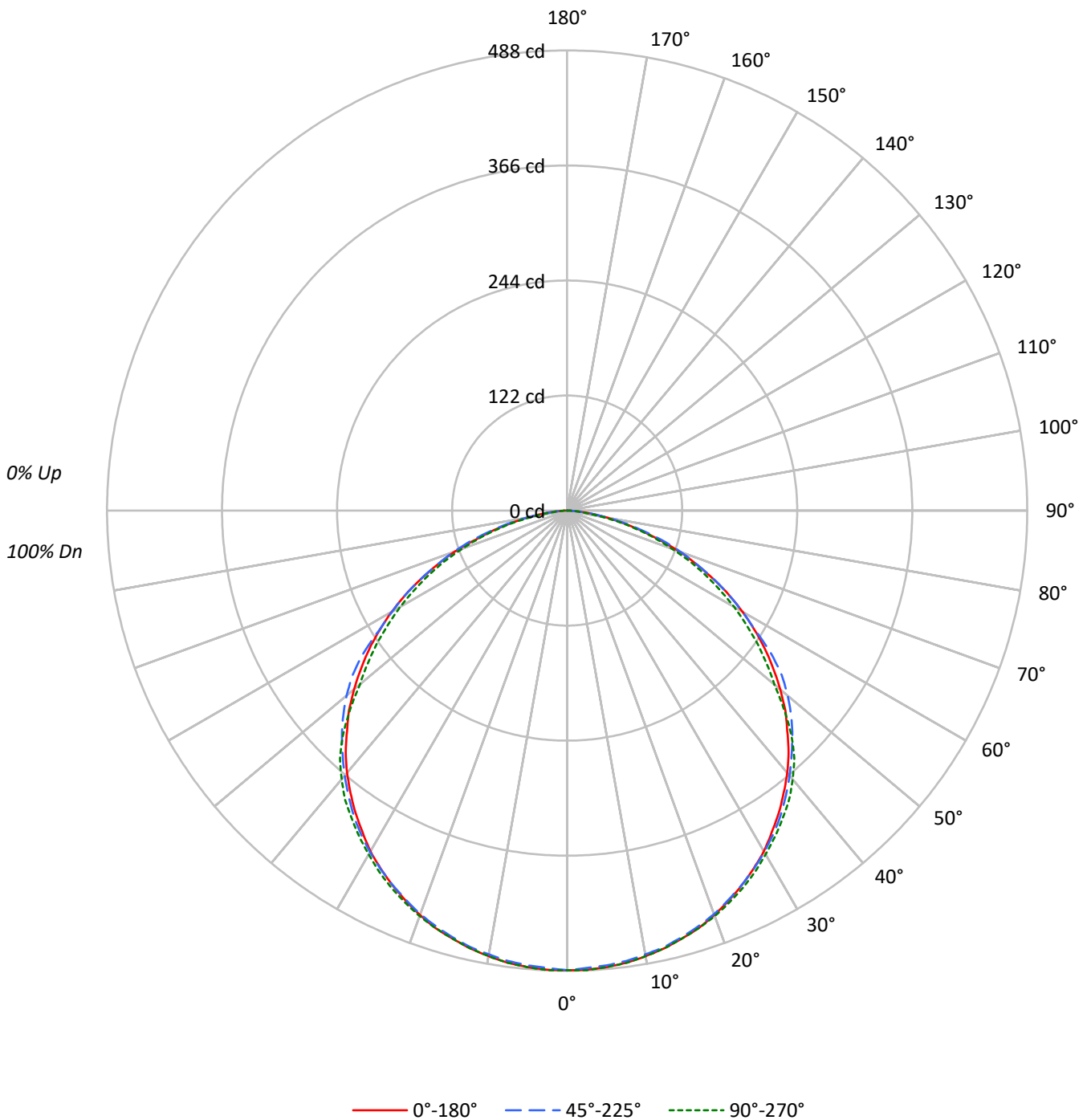
Input Watts (W): 16.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1369	1369	1369
5°	1370	1365	1370
10°	1368	1363	1368
15°	1366	1362	1366
20°	1364	1361	1368
25°	1358	1357	1367
30°	1353	1356	1365
35°	1342	1353	1366
40°	1331	1345	1364
45°	1311	1341	1335
50°	1289	1334	1254
55°	1255	1292	1207
60°	1207	1205	1149
65°	1132	1137	1075
70°	1039	1051	973
75°	872	914	832
80°	692	707	585
85°	454	393	332



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.2	3.3
10°-20°	132.6	9.6
20°-30°	202.6	14.6
30°-40°	247.1	17.8
40°-50°	258.4	18.6
50°-60°	228.8	16.5
60°-70°	168.5	12.1
70°-80°	87.2	6.3
80°-90°	17.4	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°	381.4	27.5
0°-40°	628.5	45.3
0°-60°	1115.7	80.3
0°-90°	1388.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1388.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	487	487	487	487	487	
5°	486	486	484	486	486	46
15°	470	470	468	470	470	133
25°	438	438	438	441	441	202
35°	391	392	395	398	398	245
45°	330	333	338	341	336	255
55°	256	262	264	250	246	229
65°	170	181	171	165	162	169
75°	80	86	84	79	77	86
85°	14	15	12	11	10	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	487.4	487.4	487.4	487.4	487.4
2.5°	487.4	487.4	485.5	487.4	487.8
5°	485.9	485.9	484.1	485.9	485.9
7.5°	483.6	483.1	481.7	483.6	483.6
10°	479.8	479.8	477.9	480.3	479.8
12.5°	475.6	475.1	474.2	476.1	475.6
15°	469.9	469.9	468.5	470.4	469.9
17.5°	464.3	463.8	462.4	464.3	464.3
20°	456.3	455.8	455.4	457.2	457.7
22.5°	447.8	447.4	446.9	449.7	449.7
25°	438.4	438.4	438.0	440.8	441.2
27.5°	428.1	428.1	428.5	432.3	431.8
30°	417.3	417.3	418.2	421.0	421.0
32.5°	404.1	405.0	406.9	410.2	410.2
35°	391.4	392.3	394.7	398.4	398.4
37.5°	377.3	378.7	381.0	385.7	386.7
40°	363.2	364.1	366.9	372.1	372.1
42.5°	347.6	348.6	352.3	357.5	356.6
45°	330.2	333.1	337.8	340.6	336.3
47.5°	313.8	315.6	322.2	318.9	311.9
50°	295.0	298.7	305.3	293.5	287.0
52.5°	275.7	279.9	287.0	270.5	266.7
55°	256.4	261.6	263.9	250.3	246.5
57.5°	235.7	241.3	236.6	228.6	224.9
60°	215.0	221.6	214.5	207.0	204.6
62.5°	193.3	200.9	192.9	186.3	183.0
65°	170.3	180.6	171.2	164.6	161.8
67.5°	147.7	158.5	148.7	143.0	141.1
70°	126.5	132.7	128.0	122.3	118.5
72.5°	101.1	107.3	106.3	100.2	97.8
75°	80.4	86.1	84.2	79.0	76.7
77.5°	59.7	65.9	64.0	57.9	56.9
80°	42.8	47.0	43.7	38.1	36.2
82.5°	26.8	30.1	25.9	21.6	20.7
85°	14.1	15.1	12.2	10.8	10.3
87.5°	4.7	5.2	5.2	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)