

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: P225558

Luminaire Tested: **14AC-LD5-25-SQP-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: P225558
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-L835-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH SQP LENS
Light Source: (84)3500K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1681.0 lumens
Efficiency: N/A
Efficacy: 84.1 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

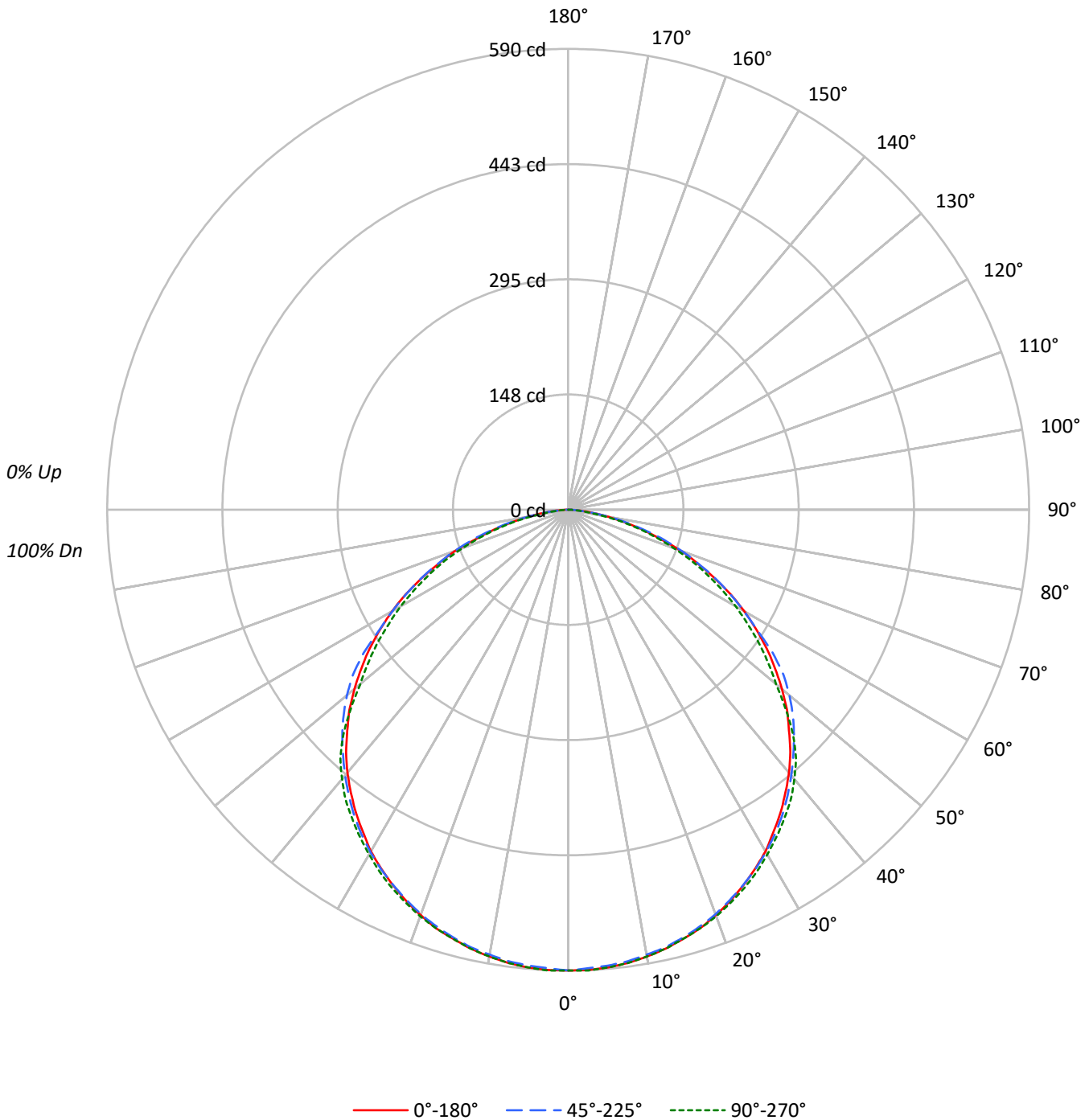
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1656	1656	1656
5°	1658	1651	1658
10°	1656	1649	1656
15°	1654	1649	1654
20°	1650	1647	1655
25°	1644	1642	1655
30°	1638	1641	1652
35°	1624	1638	1653
40°	1611	1628	1651
45°	1587	1623	1617
50°	1560	1614	1517
55°	1519	1564	1461
60°	1461	1458	1391
65°	1369	1377	1302
70°	1258	1272	1178
75°	1057	1106	1007
80°	838	857	708
85°	551	477	403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	3.3
10°-20°	160.6	9.6
20°-30°	245.2	14.6
30°-40°	299.1	17.8
40°-50°	312.8	18.6
50°-60°	276.9	16.5
60°-70°	203.9	12.1
70°-80°	105.6	6.3
80°-90°	21.0	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°	461.6	27.5
0°-40°	760.7	45.3
0°-60°	1350.5	80.3
0°-90°	1681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1681.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	588	588	586	588	588	56
15°	569	569	567	569	569	161
25°	531	531	530	534	534	245
35°	474	475	478	482	482	296
45°	400	403	409	412	407	309
55°	310	317	319	303	298	277
65°	206	219	207	199	196	204
75°	97	104	102	96	93	104
85°	17	18	15	13	12	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	589.9	589.9	589.9	589.9	589.9
2.5°	589.9	589.9	587.6	589.9	590.5
5°	588.2	588.2	585.9	588.2	588.2
7.5°	585.3	584.8	583.1	585.3	585.3
10°	580.8	580.8	578.5	581.4	580.8
12.5°	575.7	575.1	574.0	576.2	575.7
15°	568.8	568.8	567.1	569.4	568.8
17.5°	562.0	561.4	559.7	562.0	562.0
20°	552.3	551.8	551.2	553.5	554.0
22.5°	542.1	541.5	540.9	544.3	544.3
25°	530.7	530.7	530.1	533.5	534.1
27.5°	518.2	518.2	518.7	523.3	522.7
30°	505.1	505.1	506.2	509.6	509.6
32.5°	489.1	490.3	492.5	496.5	496.5
35°	473.7	474.9	477.7	482.3	482.3
37.5°	456.7	458.4	461.2	466.9	468.0
40°	439.6	440.7	444.1	450.4	450.4
42.5°	420.8	421.9	426.5	432.7	431.6
45°	399.7	403.1	408.8	412.2	407.1
47.5°	379.8	382.1	390.0	386.1	377.5
50°	357.0	361.6	369.5	355.3	347.3
52.5°	333.7	338.8	347.3	327.4	322.9
55°	310.3	316.6	319.4	302.9	298.4
57.5°	285.3	292.1	286.4	276.7	272.2
60°	260.2	268.2	259.6	250.5	247.7
62.5°	234.0	243.1	233.5	225.5	221.5
65°	206.1	218.7	207.3	199.3	195.9
67.5°	178.8	191.9	179.9	173.1	170.8
70°	153.2	160.6	154.9	148.0	143.5
72.5°	122.4	129.8	128.7	121.3	118.4
75°	97.4	104.2	101.9	95.7	92.8
77.5°	72.3	79.7	77.4	70.0	68.9
80°	51.8	56.9	53.0	46.1	43.8
82.5°	32.5	36.4	31.3	26.2	25.1
85°	17.1	18.2	14.8	13.1	12.5
87.5°	5.7	6.3	6.3	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)