

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: P225557

Luminaire Tested: **14AC-LD5-25-SQP-UNV-L830-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: P225557
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-L830-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH SQP LENS
Light Source: (84)3000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1665.9 lumens
Efficiency: N/A
Efficacy: 81.4 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

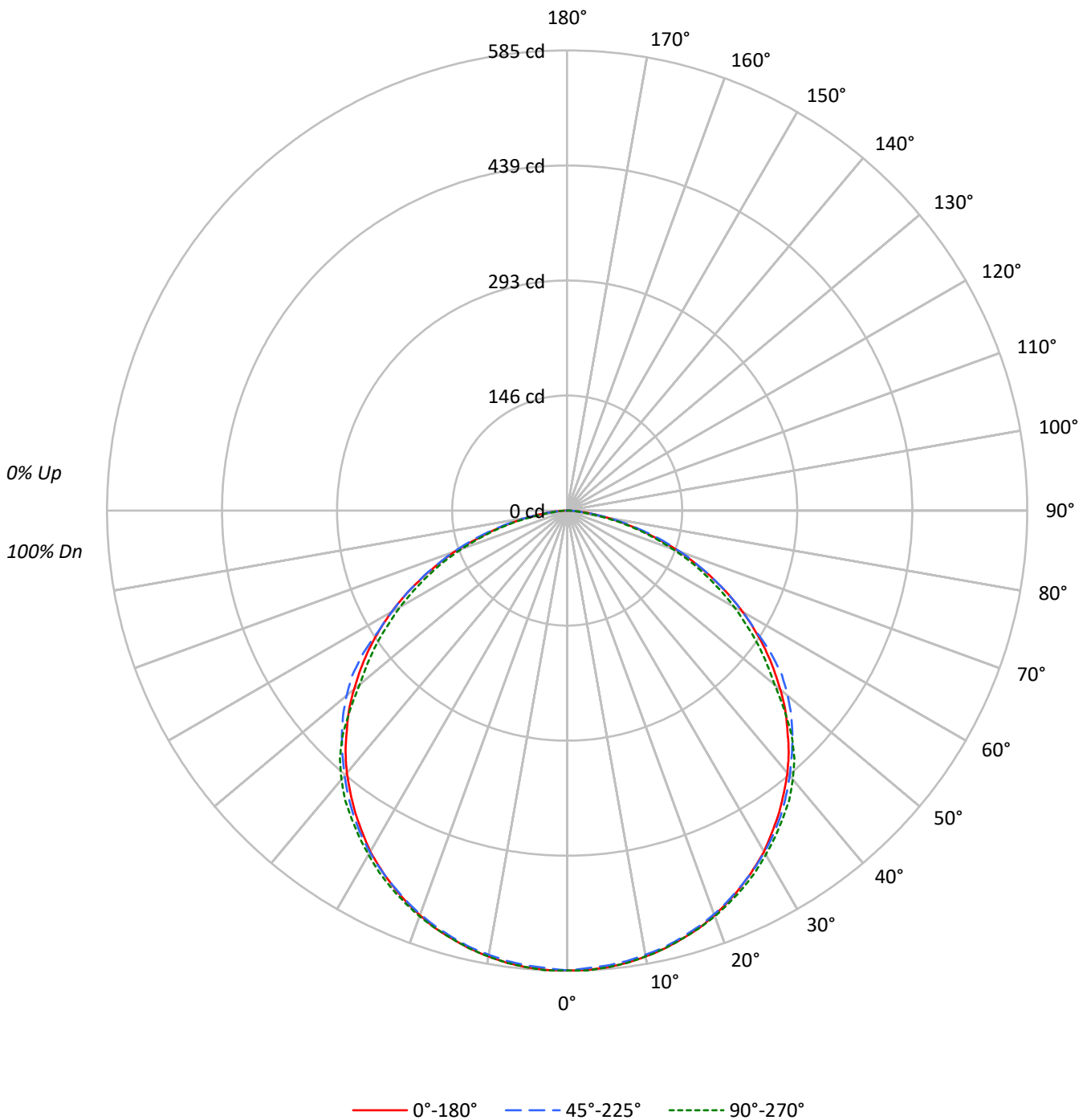
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1642	1642	1642
5°	1643	1637	1643
10°	1641	1635	1641
15°	1639	1634	1639
20°	1635	1632	1641
25°	1629	1628	1640
30°	1623	1626	1637
35°	1609	1623	1638
40°	1597	1613	1636
45°	1573	1609	1602
50°	1546	1600	1504
55°	1505	1550	1448
60°	1448	1445	1379
65°	1357	1365	1290
70°	1246	1260	1167
75°	1047	1096	998
80°	830	849	702
85°	544	474	400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	3.3
10°-20°	159.1	9.6
20°-30°	243.0	14.6
30°-40°	296.4	17.8
40°-50°	310.0	18.6
50°-60°	274.4	16.5
60°-70°	202.1	12.1
70°-80°	104.6	6.3
80°-90°	20.8	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°	457.4	27.5
0°-40°	753.9	45.3
0°-60°	1338.3	80.3
0°-90°	1665.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1665.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	585	585	585	585	585	
5°	583	583	581	583	583	55
15°	564	564	562	564	564	159
25°	526	526	525	529	529	242
35°	470	471	473	478	478	294
45°	396	400	405	408	404	306
55°	308	314	317	300	296	274
65°	204	217	205	198	194	202
75°	96	103	101	95	92	103
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°	584.6	584.6	584.6	584.6	584.6
2.5°	584.6	584.6	582.3	584.6	585.2
5°	582.9	582.9	580.6	582.9	582.9
7.5°	580.1	579.5	577.8	580.1	580.1
10°	575.6	575.6	573.3	576.1	575.6
12.5°	570.5	569.9	568.8	571.0	570.5
15°	563.7	563.7	562.0	564.3	563.7
17.5°	556.9	556.4	554.7	556.9	556.9
20°	547.3	546.8	546.2	548.5	549.0
22.5°	537.2	536.6	536.1	539.4	539.4
25°	525.9	525.9	525.3	528.7	529.3
27.5°	513.5	513.5	514.1	518.6	518.0
30°	500.5	500.5	501.6	505.0	505.0
32.5°	484.7	485.8	488.1	492.0	492.0
35°	469.5	470.6	473.4	477.9	477.9
37.5°	452.5	454.2	457.1	462.7	463.8
40°	435.6	436.7	440.1	446.3	446.3
42.5°	417.0	418.1	422.6	428.8	427.7
45°	396.1	399.5	405.1	408.5	403.5
47.5°	376.4	378.6	386.5	382.6	374.1
50°	353.8	358.3	366.2	352.1	344.2
52.5°	330.7	335.7	344.2	324.5	319.9
55°	307.5	313.7	316.6	300.2	295.7
57.5°	282.7	289.5	283.8	274.2	269.7
60°	257.9	265.8	257.3	248.3	245.5
62.5°	231.9	240.9	231.4	223.5	219.5
65°	204.3	216.7	205.4	197.5	194.1
67.5°	177.2	190.2	178.3	171.5	169.3
70°	151.8	159.1	153.5	146.7	142.2
72.5°	121.3	128.7	127.5	120.2	117.4
75°	96.5	103.3	101.0	94.8	92.0
77.5°	71.7	79.0	76.7	69.4	68.3
80°	51.3	56.4	52.5	45.7	43.4
82.5°	32.2	36.1	31.0	26.0	24.8
85°	16.9	18.1	14.7	13.0	12.4
87.5°	5.6	6.2	6.2	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)