

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: P225595

Luminaire Tested: **22AC-LD5-20-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: P225595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35765)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22AC-LD5-20-SQP-UNV-L830-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH SQP LENS
Light Source: (84)3000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1456.4 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

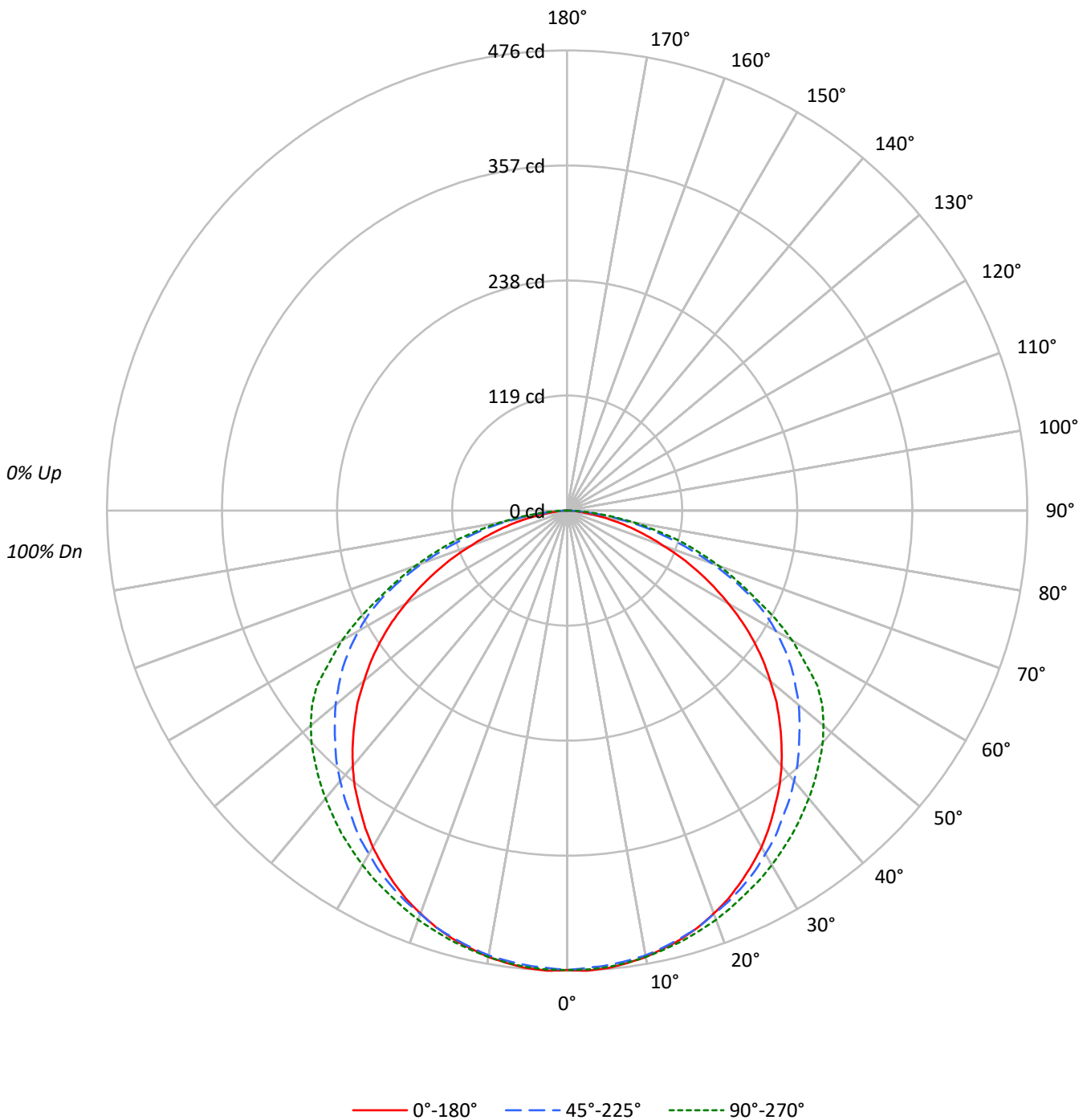
Input Watts (W): 16.73
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91		93	90	88		90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52		63	57	52		61	55	51	49
5	75	62	53	46	73	61	52	45	58	51	45		56	50	44		55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1279	1279	1279
5°	1284	1276	1281
10°	1281	1277	1281
15°	1277	1274	1284
20°	1270	1272	1290
25°	1260	1274	1298
30°	1249	1274	1316
35°	1230	1275	1338
40°	1212	1283	1366
45°	1184	1291	1403
50°	1148	1310	1449
55°	1105	1330	1483
60°	1039	1342	1448
65°	954	1331	1368
70°	829	1251	1315
75°	707	1126	1239
80°	536	964	1071
85°	355	639	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	3.1
10°-20°	129.5	8.9
20°-30°	198.4	13.6
30°-40°	244.2	16.8
40°-50°	262.5	18.0
50°-60°	249.2	17.1
60°-70°	193.1	13.3
70°-80°	109.0	7.5
80°-90°	25.7	1.8
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°	372.9	25.6
0°-40°	617.0	42.4
0°-60°	1128.6	77.5
0°-90°	1456.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1456.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	475	475	475	475	475	
5°	475	474	472	473	474	45
15°	458	458	457	460	461	129
25°	424	426	429	434	437	196
35°	374	379	388	402	407	234
45°	311	320	339	361	369	240
55°	236	255	283	308	316	210
65°	150	175	209	213	215	148
75°	68	96	108	115	119	72
85°	12	17	21	24	24	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	475.2	475.2	475.2	475.2	475.2
2.5°	476.4	475.2	473.5	474.7	475.2
5°	475.2	473.5	472.3	472.9	474.1
7.5°	472.3	471.2	470.0	471.2	471.8
10°	468.9	467.7	467.2	468.3	468.9
12.5°	463.7	463.1	462.6	464.3	464.9
15°	458.5	457.9	457.4	459.7	460.8
17.5°	451.6	451.0	451.6	453.9	455.6
20°	443.5	443.5	444.1	448.2	450.5
22.5°	434.9	435.5	437.2	441.2	444.1
25°	424.5	425.7	429.1	434.3	437.2
27.5°	413.6	415.3	420.5	426.8	430.9
30°	402.1	404.4	410.1	418.8	423.4
32.5°	388.8	391.7	400.3	410.7	415.3
35°	374.4	379.0	388.2	401.5	407.3
37.5°	360.6	365.2	377.3	391.7	398.0
40°	345.0	350.8	365.2	381.3	388.8
42.5°	328.3	335.8	353.1	371.5	379.0
45°	311.1	320.3	339.3	360.6	368.7
47.5°	293.8	303.6	326.0	349.1	358.3
50°	274.2	286.9	312.8	336.4	346.2
52.5°	255.8	270.2	297.8	322.6	332.9
55°	235.6	254.6	283.4	307.6	316.2
57.5°	214.9	236.2	266.7	288.6	290.9
60°	193.0	215.4	249.4	265.0	269.0
62.5°	171.1	195.9	231.0	242.5	243.1
65°	149.8	175.1	209.1	213.1	214.9
67.5°	127.9	156.1	184.3	187.2	190.7
70°	105.4	136.5	159.0	164.7	167.1
72.5°	85.8	116.4	133.1	140.0	142.3
75°	68.0	96.2	108.3	115.2	119.2
77.5°	50.1	74.3	85.3	91.0	92.7
80°	34.6	52.4	62.2	66.8	69.1
82.5°	21.9	33.4	39.7	44.4	45.5
85°	11.5	16.7	20.7	23.6	24.2
87.5°	4.6	5.2	6.9	11.5	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)