

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: P225613

Luminaire Tested: **22AC-LD5-20-RDP-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: P225613  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35766)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22AC-LD5-20-RDP-UNV-L830-CD1-U  
Description: METALUX Accord 2X2 LED TROFFER WITH RDP 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: 1561.3 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

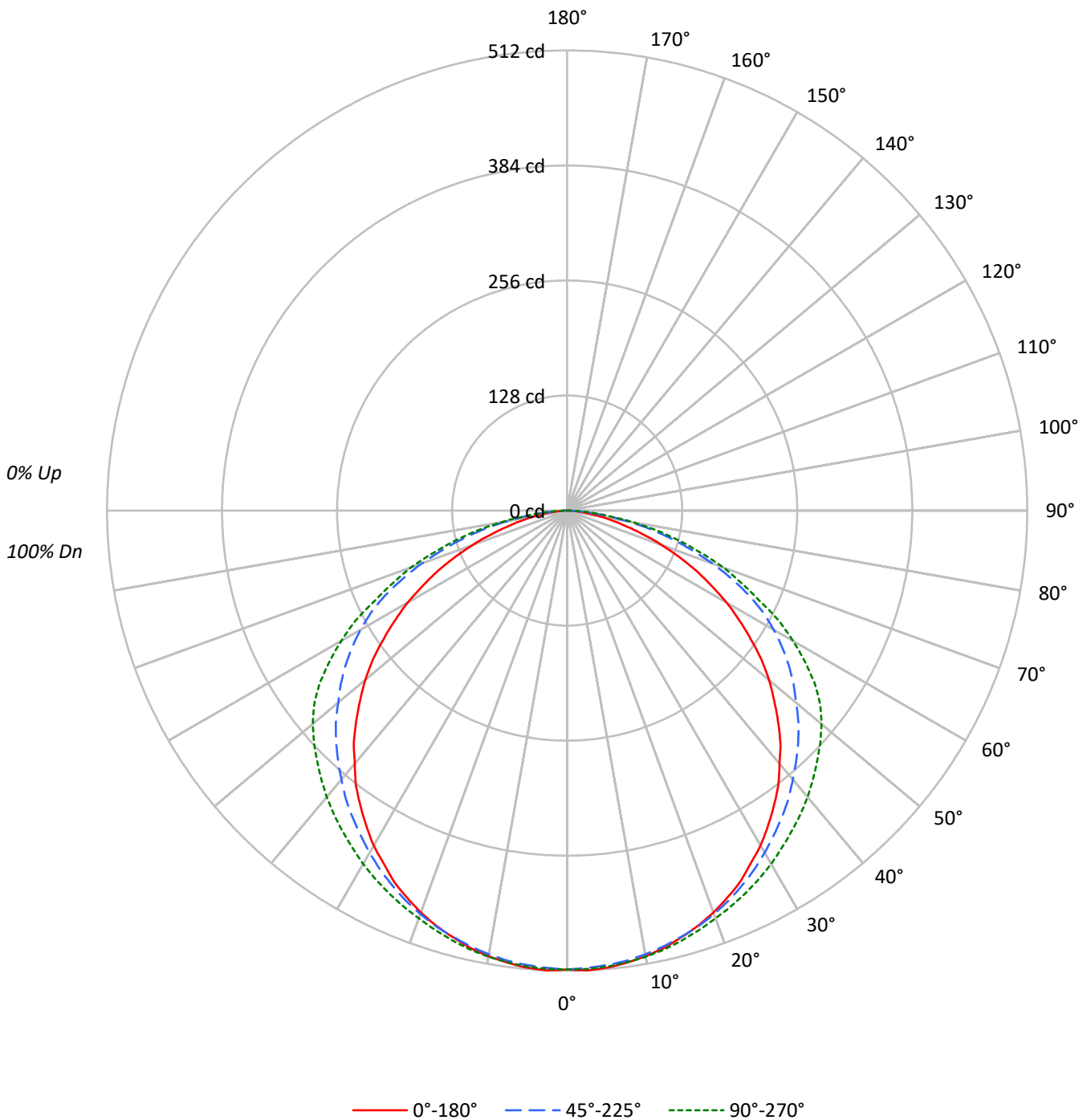
Input Watts (W): 16.73  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	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	52	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	34	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°	1374	1374	1374
5°	1379	1371	1376
10°	1376	1370	1377
15°	1369	1368	1379
20°	1363	1368	1383
25°	1353	1367	1394
30°	1337	1366	1411
35°	1317	1368	1431
40°	1291	1372	1461
45°	1263	1383	1498
50°	1228	1392	1546
55°	1171	1414	1579
60°	1104	1429	1563
65°	1009	1423	1497
70°	880	1356	1455
75°	718	1234	1336
80°	563	1044	1142
85°	392	695	818



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.4	3.1
10°-20°	139.0	8.9
20°-30°	212.8	13.6
30°-40°	261.4	16.7
40°-50°	280.4	18.0
50°-60°	265.8	17.0
60°-70°	207.7	13.3
70°-80°	118.2	7.6
80°-90°	27.6	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°	400.2	25.6
0°-40°	661.6	42.4
0°-60°	1207.8	77.4
0°-90°	1561.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1561.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	510	509	508	509	509	49
15°	491	491	491	493	495	139
25°	456	457	460	467	470	210
35°	401	406	416	430	436	251
45°	332	342	364	385	394	256
55°	250	271	301	328	336	223
65°	158	187	224	233	235	156
75°	69	103	119	127	128	75
85°	13	18	22	26	26	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	510.5	510.5	510.5	510.5	510.5
2.5°	512.2	510.5	509.3	509.9	510.5
5°	510.5	509.3	507.6	508.7	509.3
7.5°	507.6	506.4	505.3	506.4	507.0
10°	503.5	502.4	501.2	503.0	504.1
12.5°	498.4	497.2	496.6	498.9	500.1
15°	491.4	490.9	490.9	493.2	494.9
17.5°	484.5	484.0	485.1	488.0	489.1
20°	475.9	475.9	477.6	481.1	482.8
22.5°	466.1	466.7	469.6	474.2	476.5
25°	455.7	456.9	460.3	466.7	469.6
27.5°	442.5	444.8	450.5	458.0	462.1
30°	430.4	432.7	439.6	449.4	454.0
32.5°	416.0	420.0	428.1	439.6	444.8
35°	401.0	405.6	416.5	429.8	435.6
37.5°	386.0	390.6	404.4	419.4	426.3
40°	367.6	375.6	390.6	408.5	416.0
42.5°	351.4	358.9	377.4	397.0	405.0
45°	331.9	341.6	363.5	385.4	393.5
47.5°	312.3	324.4	349.1	372.8	382.0
50°	293.3	305.9	332.4	358.9	369.3
52.5°	272.5	288.1	317.5	345.1	354.9
55°	249.5	271.4	301.3	328.4	336.5
57.5°	227.0	250.0	284.0	310.0	314.0
60°	205.1	228.7	265.6	285.8	290.4
62.5°	180.9	208.0	246.0	262.1	265.6
65°	158.4	187.2	223.5	232.8	235.1
67.5°	134.8	165.4	197.6	206.8	209.1
70°	111.8	144.6	172.3	180.3	184.9
72.5°	89.9	123.3	144.6	153.3	155.6
75°	69.1	103.1	118.7	127.3	128.5
77.5°	52.4	80.7	93.9	100.8	102.0
80°	36.3	55.9	67.4	72.6	73.7
82.5°	23.0	35.7	43.2	47.2	47.2
85°	12.7	18.4	22.5	25.9	26.5
87.5°	4.6	5.8	7.5	11.5	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)