

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: P225628

Luminaire Tested: **22AC-LD5-34-RDP-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: P225628  
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-LD5-34-RDP-UNV-L840-CD1-U  
Description: METALUX Accord 2X2 LED TROFFER WITH RDP LENS  
Light Source: (84)4000K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2764.2 lumens  
Efficiency: N/A  
Efficacy: 91.5 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

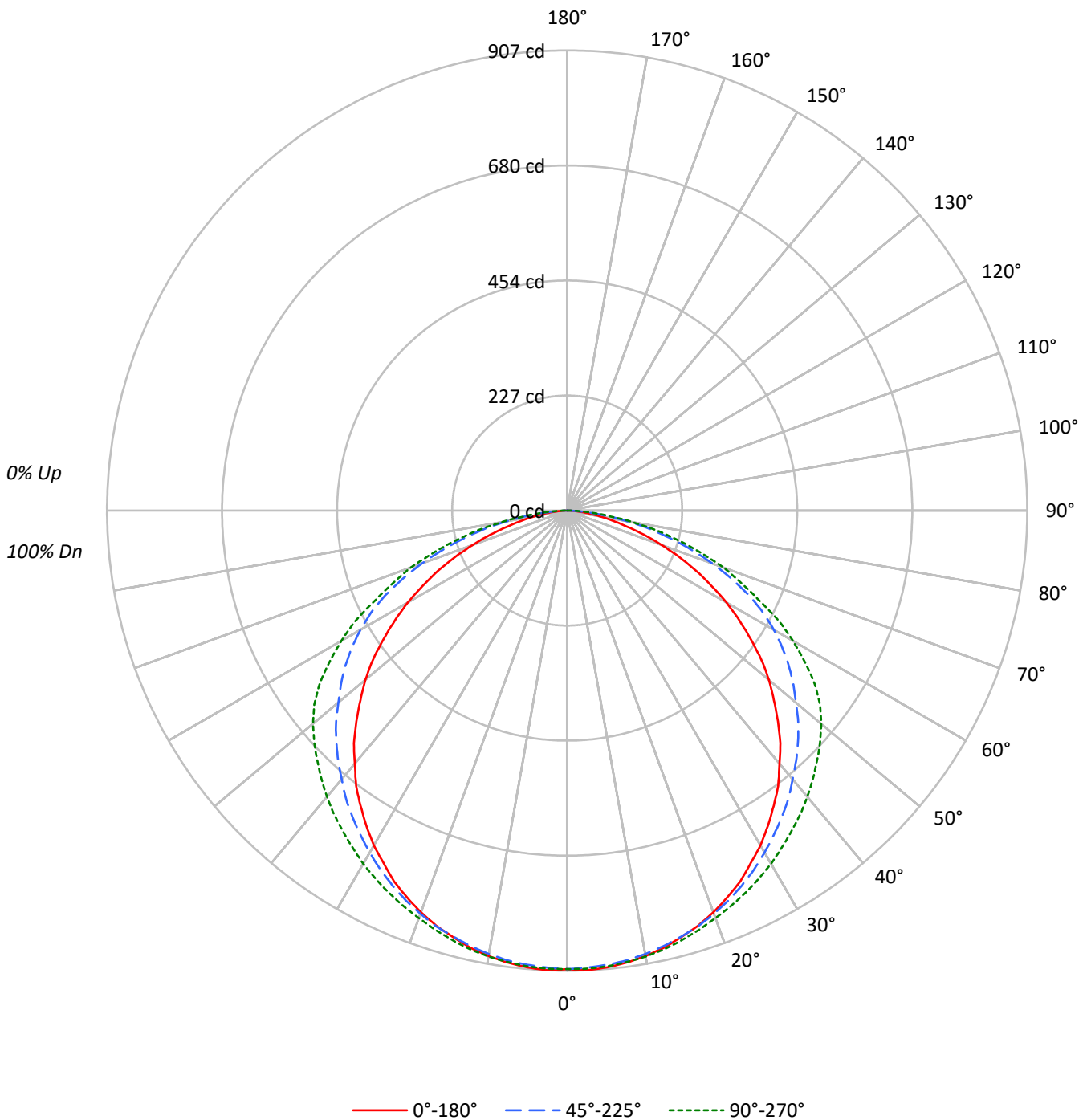
Input Watts (W): 30.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2432	2432	2432
5°	2441	2428	2436
10°	2436	2425	2439
15°	2424	2421	2441
20°	2413	2422	2448
25°	2396	2420	2468
30°	2368	2418	2498
35°	2332	2423	2533
40°	2286	2429	2587
45°	2236	2449	2651
50°	2174	2464	2737
55°	2072	2503	2795
60°	1954	2531	2767
65°	1786	2520	2650
70°	1557	2400	2576
75°	1273	2184	2365
80°	996	1849	2024
85°	692	1229	1448



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.6	3.1
10°-20°	246.1	8.9
20°-30°	376.7	13.6
30°-40°	462.9	16.7
40°-50°	496.4	18.0
50°-60°	470.5	17.0
60°-70°	367.8	13.3
70°-80°	209.2	7.6
80°-90°	48.9	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°	708.5	25.6
0°-40°	1171.4	42.4
0°-60°	2138.3	77.4
0°-90°	2764.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2764.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	904	902	899	901	902	86
15°	870	869	869	873	876	246
25°	807	809	815	826	831	371
35°	710	718	738	761	771	444
45°	588	605	644	682	697	453
55°	442	480	534	581	596	395
65°	280	332	396	412	416	277
75°	122	183	210	225	228	133
85°	22	33	40	46	47	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	903.8	903.8	903.8	903.8	903.8
2.5°	906.8	903.8	901.7	902.7	903.8
5°	903.8	901.7	898.7	900.7	901.7
7.5°	898.7	896.6	894.6	896.6	897.6
10°	891.5	889.5	887.4	890.5	892.5
12.5°	882.3	880.3	879.3	883.4	885.4
15°	870.1	869.1	869.1	873.2	876.2
17.5°	857.9	856.8	858.9	864.0	866.0
20°	842.6	842.6	845.6	851.7	854.8
22.5°	825.2	826.2	831.3	839.5	843.6
25°	806.8	808.9	815.0	826.2	831.3
27.5°	783.4	787.5	797.7	810.9	818.1
30°	762.0	766.0	778.3	795.6	803.8
32.5°	736.5	743.6	757.9	778.3	787.5
35°	709.9	718.1	737.5	760.9	771.1
37.5°	683.4	691.6	716.1	742.6	754.8
40°	650.8	665.1	691.6	723.2	736.5
42.5°	622.2	635.5	668.1	702.8	717.1
45°	587.5	604.9	643.6	682.4	696.7
47.5°	552.9	574.3	618.1	660.0	676.3
50°	519.2	541.6	588.6	635.5	653.8
52.5°	482.5	510.0	562.0	611.0	628.3
55°	441.7	480.4	533.5	581.4	595.7
57.5°	401.9	442.7	502.9	548.8	555.9
60°	363.1	405.0	470.2	505.9	514.1
62.5°	320.3	368.2	435.6	464.1	470.2
65°	280.5	331.5	395.8	412.1	416.2
67.5°	238.7	292.8	349.9	366.2	370.3
70°	197.9	256.0	305.0	319.3	327.4
72.5°	159.1	218.3	256.0	271.3	275.4
75°	122.4	182.6	210.1	225.4	227.5
77.5°	92.8	142.8	166.3	178.5	180.5
80°	64.3	98.9	119.3	128.5	130.6
82.5°	40.8	63.2	76.5	83.6	83.6
85°	22.4	32.6	39.8	45.9	46.9
87.5°	8.2	10.2	13.3	20.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)