

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: P225625

Luminaire Tested: **22AC-LD5-20-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: P225625  
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-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: 1655.7 lumens  
Efficiency: N/A  
Efficacy: 99.0 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

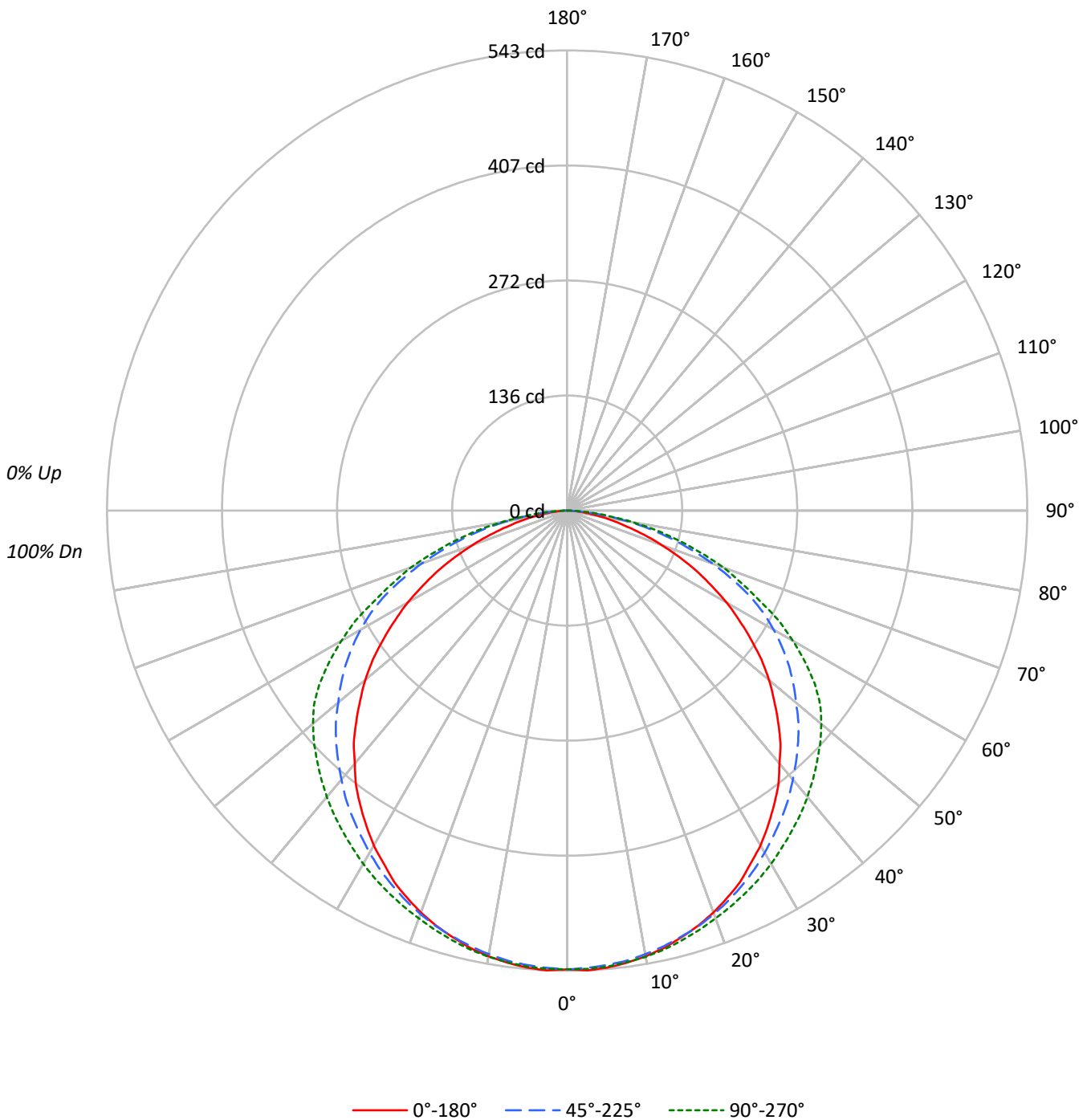
Input Watts (W): 16.73  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1457	1457	1457
5°	1462	1454	1459
10°	1459	1452	1461
15°	1452	1450	1462
20°	1445	1450	1466
25°	1435	1450	1478
30°	1418	1449	1496
35°	1397	1451	1517
40°	1369	1455	1550
45°	1339	1467	1588
50°	1302	1476	1639
55°	1241	1499	1674
60°	1171	1516	1657
65°	1070	1510	1587
70°	932	1437	1543
75°	762	1309	1416
80°	597	1108	1212
85°	414	735	868



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.3	3.1
10°-20°	147.4	8.9
20°-30°	225.6	13.6
30°-40°	277.2	16.7
40°-50°	297.3	18.0
50°-60°	281.8	17.0
60°-70°	220.3	13.3
70°-80°	125.3	7.6
80°-90°	29.3	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°	424.4	25.6
0°-40°	701.6	42.4
0°-60°	1280.8	77.4
0°-90°	1655.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1655.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	541	541	541	541	541	
5°	541	540	538	540	540	51
15°	521	520	520	523	525	147
25°	483	484	488	495	498	222
35°	425	430	442	456	462	266
45°	352	362	386	409	417	271
55°	264	288	320	348	357	237
65°	168	199	237	247	249	166
75°	73	109	126	135	136	80
85°	13	20	24	28	28	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	541.3	541.3	541.3	541.3	541.3
2.5°	543.1	541.3	540.1	540.7	541.3
5°	541.3	540.1	538.3	539.5	540.1
7.5°	538.3	537.0	535.8	537.0	537.6
10°	534.0	532.8	531.5	533.4	534.6
12.5°	528.5	527.3	526.6	529.1	530.3
15°	521.2	520.5	520.5	523.0	524.8
17.5°	513.8	513.2	514.4	517.5	518.7
20°	504.7	504.7	506.5	510.2	512.0
22.5°	494.3	494.9	497.9	502.8	505.3
25°	483.3	484.5	488.2	494.9	497.9
27.5°	469.2	471.7	477.8	485.7	490.0
30°	456.4	458.8	466.2	476.6	481.4
32.5°	441.1	445.4	453.9	466.2	471.7
35°	425.2	430.1	441.7	455.8	461.9
37.5°	409.3	414.2	428.9	444.8	452.1
40°	389.8	398.3	414.2	433.2	441.1
42.5°	372.7	380.6	400.2	421.0	429.5
45°	351.9	362.3	385.5	408.7	417.3
47.5°	331.1	344.0	370.2	395.3	405.1
50°	311.0	324.4	352.5	380.6	391.6
52.5°	289.0	305.5	336.6	366.0	376.4
55°	264.5	287.8	319.5	348.2	356.8
57.5°	240.7	265.2	301.2	328.7	333.0
60°	217.5	242.6	281.7	303.0	307.9
62.5°	191.8	220.6	260.9	278.0	281.7
65°	168.0	198.6	237.1	246.8	249.3
67.5°	143.0	175.3	209.6	219.3	221.8
70°	118.5	153.4	182.7	191.2	196.1
72.5°	95.3	130.7	153.4	162.5	165.0
75°	73.3	109.4	125.9	135.0	136.2
77.5°	55.6	85.5	99.6	106.9	108.1
80°	38.5	59.3	71.5	77.0	78.2
82.5°	24.4	37.9	45.8	50.1	50.1
85°	13.4	19.6	23.8	27.5	28.1
87.5°	4.9	6.1	7.9	12.2	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)