

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: P225591

Luminaire Tested: **22AC-LD5-27-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: P225591  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35761)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22AC-LD5-27-UNV-L840-CD1-U  
Description: METALUX Accord 2X2 LED TROFFER  
Light Source: (84)4000K CCT, 85 CRI LEDs  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2756.0 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

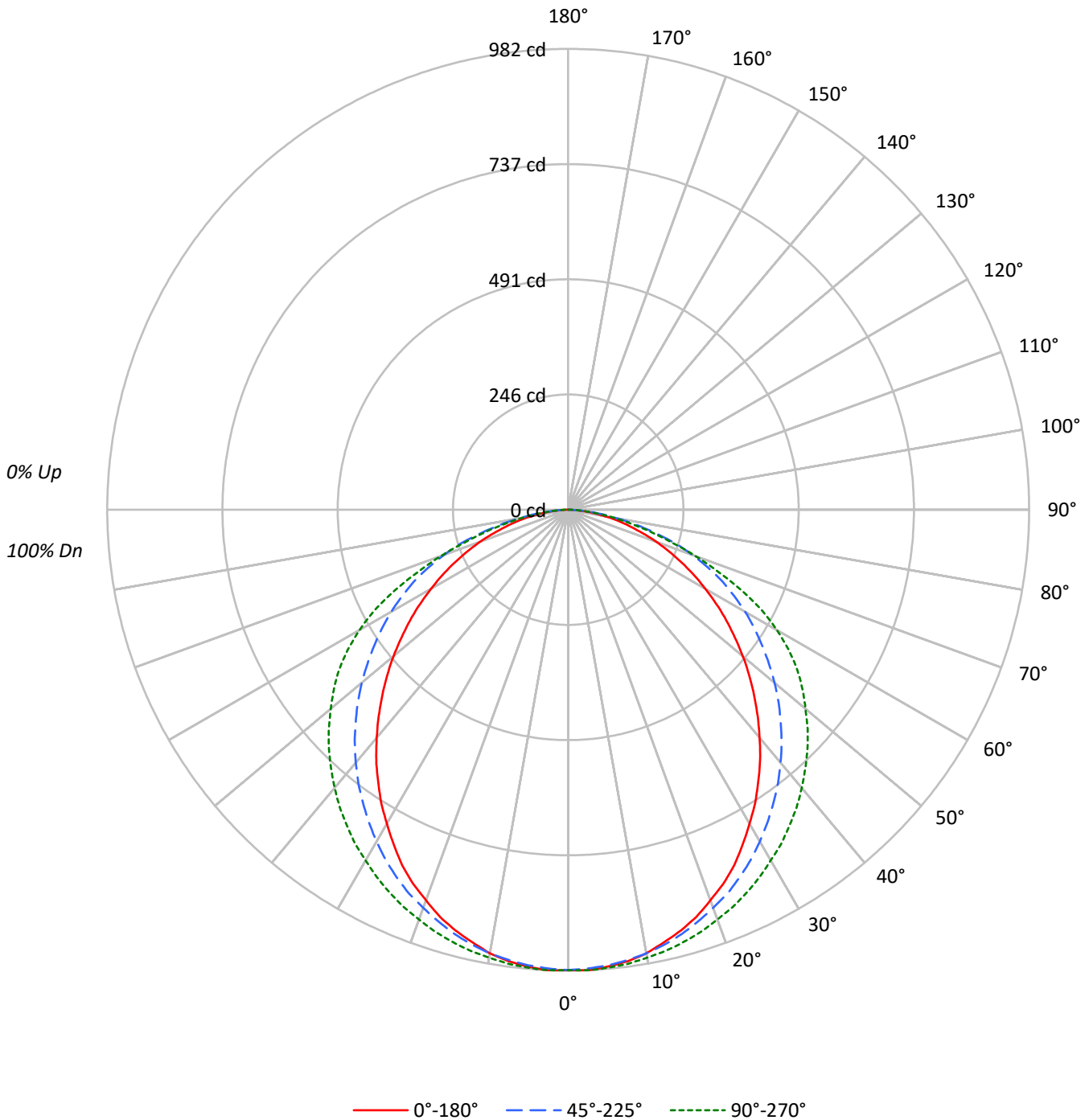
Input Watts (W): 22.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2640	2640	2640
5°	2640	2632	2647
10°	2623	2623	2648
15°	2586	2608	2656
20°	2536	2585	2662
25°	2484	2566	2673
30°	2401	2537	2682
35°	2320	2504	2700
40°	2229	2472	2719
45°	2132	2436	2743
50°	2034	2401	2763
55°	1931	2367	2797
60°	1815	2344	2765
65°	1699	2308	2604
70°	1567	2215	2267
75°	1408	1988	1878
80°	1213	1646	1522
85°	942	1105	1065



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.8	3.4
10°-20°	264.7	9.6
20°-30°	398.9	14.5
30°-40°	477.6	17.3
40°-50°	494.0	17.9
50°-60°	451.2	16.4
60°-70°	345.2	12.5
70°-80°	187.7	6.8
80°-90°	43.9	1.6
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°	756.4	27.4
0°-40°	1234.0	44.8
0°-60°	2179.2	79.1
0°-90°	2756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2756.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	981	981	981	981	981	
5°	977	976	974	977	980	93
15°	928	929	936	947	953	261
25°	836	843	864	888	900	384
35°	706	722	762	803	822	442
45°	560	583	640	697	721	432
55°	412	444	504	571	596	368
65°	267	297	362	404	409	265
75°	135	167	191	187	181	145
85°	30	34	36	34	34	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	981.2	981.2	981.2	981.2	981.2
2.5°	982.5	979.8	978.5	981.2	982.5
5°	977.2	975.9	974.5	977.2	979.8
7.5°	970.6	967.9	967.9	973.2	975.9
10°	959.9	957.3	959.9	966.6	969.2
12.5°	944.0	945.3	949.3	958.6	962.6
15°	928.1	929.4	936.0	946.7	953.3
17.5°	909.5	912.1	920.1	936.0	942.7
20°	885.6	889.6	902.8	921.4	929.4
22.5°	863.0	867.0	885.6	906.8	916.1
25°	836.5	843.1	864.3	888.2	900.2
27.5°	804.6	816.5	841.8	869.6	882.9
30°	772.7	786.0	816.5	849.7	863.0
32.5°	740.9	754.1	790.0	828.5	844.4
35°	706.3	722.3	762.1	803.3	821.8
37.5°	671.8	690.4	734.2	779.4	799.3
40°	634.6	655.9	703.7	754.1	774.1
42.5°	597.5	617.4	673.1	724.9	747.5
45°	560.3	582.9	640.0	697.0	720.9
47.5°	523.1	547.0	608.1	666.5	691.7
50°	485.9	512.5	573.6	636.0	659.9
52.5°	447.4	475.3	539.0	604.1	629.3
55°	411.6	443.5	504.5	570.9	596.1
57.5°	374.4	406.3	470.0	536.4	557.6
60°	337.2	366.4	435.5	496.6	513.8
62.5°	302.7	331.9	398.3	452.7	466.0
65°	266.9	297.4	362.5	403.6	408.9
67.5°	232.3	262.9	322.6	353.2	346.5
70°	199.2	229.7	281.5	292.1	288.1
72.5°	166.0	197.8	240.3	239.0	229.7
75°	135.4	167.3	191.2	187.2	180.6
77.5°	108.9	134.1	148.7	142.1	136.8
80°	78.3	102.2	106.2	100.9	98.2
82.5°	54.4	66.4	69.0	66.4	63.7
85°	30.5	34.5	35.8	34.5	34.5
87.5°	9.3	9.3	11.9	14.6	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)