

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: P225612

Luminaire Tested: **22AC-LD5-44-SQP-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: P225612  
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-LD5-44-SQP-UNV-L840-CD1-U  
Description: METALUX Accord 2X2 LED TROFFER WITH SQP 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: 3302.4 lumens  
Efficiency: N/A  
Efficacy: 78.1 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

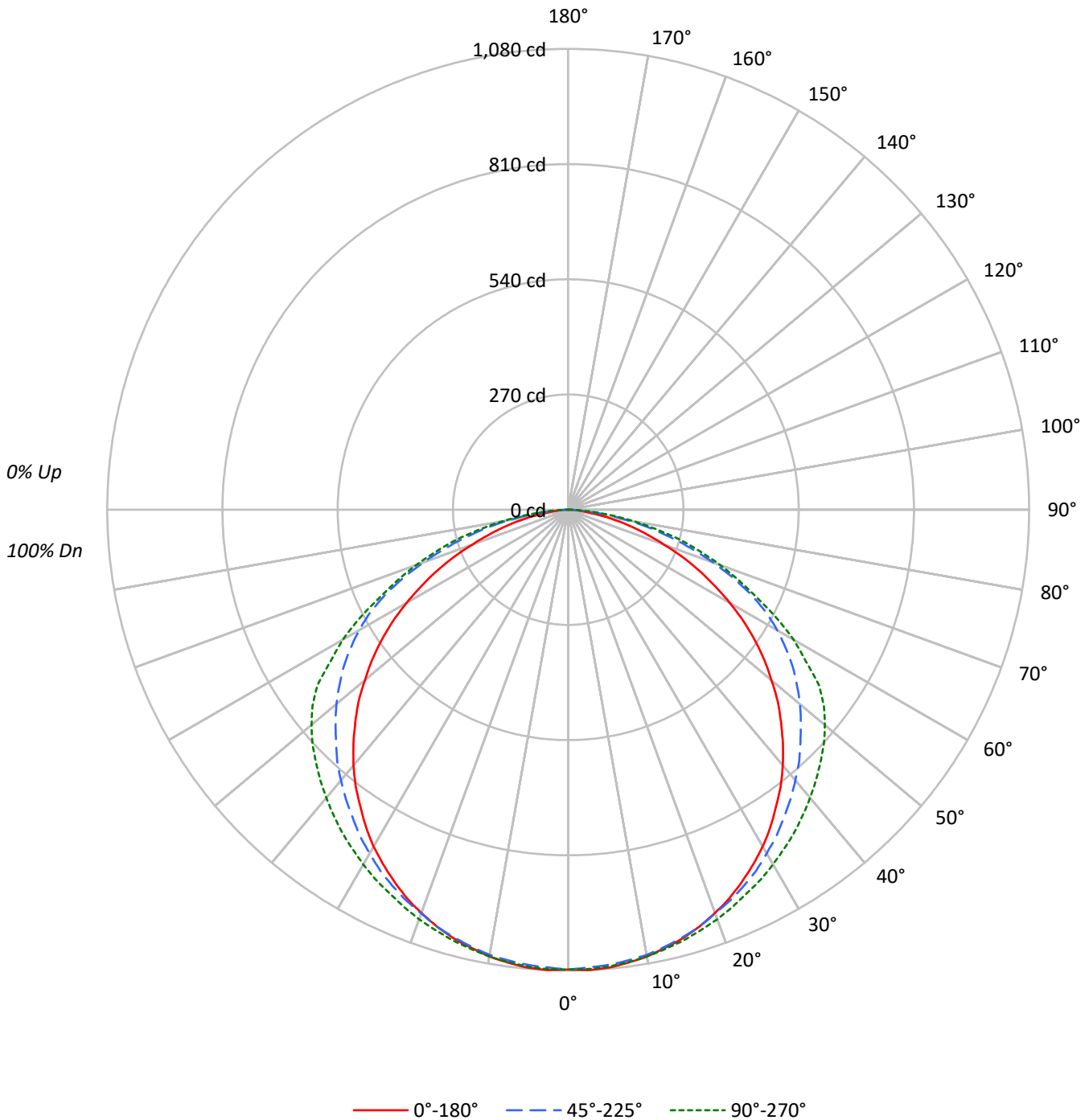
Input Watts (W): 42.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57					57			
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49					49			
5	75	62	53	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42					42			
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32					32			
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28					28			
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25					25			
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23					23			

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

	0°	45°	90°
0°	2900	2900	2900
5°	2911	2893	2904
10°	2905	2895	2905
15°	2897	2889	2911
20°	2880	2884	2925
25°	2858	2889	2944
30°	2833	2890	2983
35°	2789	2892	3034
40°	2748	2909	3097
45°	2684	2928	3181
50°	2603	2969	3286
55°	2506	3015	3364
60°	2355	3044	3283
65°	2162	3019	3102
70°	1880	2836	2980
75°	1602	2554	2811
80°	1215	2187	2428
85°	806	1451	1695



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.1	3.1
10°-20°	293.6	8.9
20°-30°	449.8	13.6
30°-40°	553.7	16.8
40°-50°	595.1	18.0
50°-60°	565.0	17.1
60°-70°	437.8	13.3
70°-80°	247.1	7.5
80°-90°	58.3	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°	845.5	25.6
0°-40°	1399.1	42.4
0°-60°	2559.2	77.5
0°-90°	3302.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3302.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1078	1074	1071	1072	1075	102
15°	1040	1038	1037	1042	1045	293
25°	963	965	973	985	991	444
35°	849	860	880	910	924	532
45°	705	726	769	818	836	544
55°	534	577	643	698	717	476
65°	340	397	474	483	487	335
75°	154	218	246	261	270	164
85°	26	38	47	54	55	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1077.6	1077.6	1077.6	1077.6	1077.6
2.5°	1080.2	1077.6	1073.7	1076.3	1077.6
5°	1077.6	1073.7	1071.1	1072.4	1075.0
7.5°	1071.1	1068.4	1065.8	1068.4	1069.7
10°	1063.2	1060.6	1059.3	1061.9	1063.2
12.5°	1051.5	1050.2	1048.8	1052.8	1054.1
15°	1039.7	1038.4	1037.1	1042.3	1044.9
17.5°	1024.0	1022.7	1024.0	1029.3	1033.2
20°	1005.7	1005.7	1007.0	1016.2	1021.4
22.5°	986.2	987.5	991.4	1000.5	1007.0
25°	962.6	965.3	973.1	984.8	991.4
27.5°	937.8	941.7	953.5	967.9	977.0
30°	911.7	916.9	930.0	949.6	960.0
32.5°	881.7	888.2	907.8	931.3	941.7
35°	849.0	859.5	880.4	910.4	923.5
37.5°	817.7	828.1	855.5	888.2	902.6
40°	782.4	795.5	828.1	864.7	881.7
42.5°	744.5	761.5	800.7	842.5	859.5
45°	705.3	726.2	769.3	817.7	835.9
47.5°	666.1	688.3	739.3	791.5	812.4
50°	621.7	650.5	709.2	762.8	785.0
52.5°	579.9	612.6	675.3	731.4	755.0
55°	534.2	577.3	642.6	697.5	717.1
57.5°	487.2	535.5	604.8	654.4	659.6
60°	437.6	488.5	565.6	600.8	610.0
62.5°	387.9	444.1	523.8	549.9	551.2
65°	339.6	397.1	474.1	483.3	487.2
67.5°	290.0	354.0	418.0	424.5	432.3
70°	239.0	309.6	360.5	373.6	378.8
72.5°	194.6	263.8	301.7	317.4	322.6
75°	154.1	218.1	245.6	261.2	270.4
77.5°	113.6	168.5	193.3	206.4	210.3
80°	78.4	118.9	141.1	151.5	156.7
82.5°	49.6	75.8	90.1	100.6	103.2
85°	26.1	37.9	47.0	53.6	54.9
87.5°	10.4	11.8	15.7	26.1	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)