

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: P225609

Luminaire Tested: **22AC-LD5-27-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: P225609  
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-LD5-27-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: 2010.2 lumens  
Efficiency: N/A  
Efficacy: 89.7 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

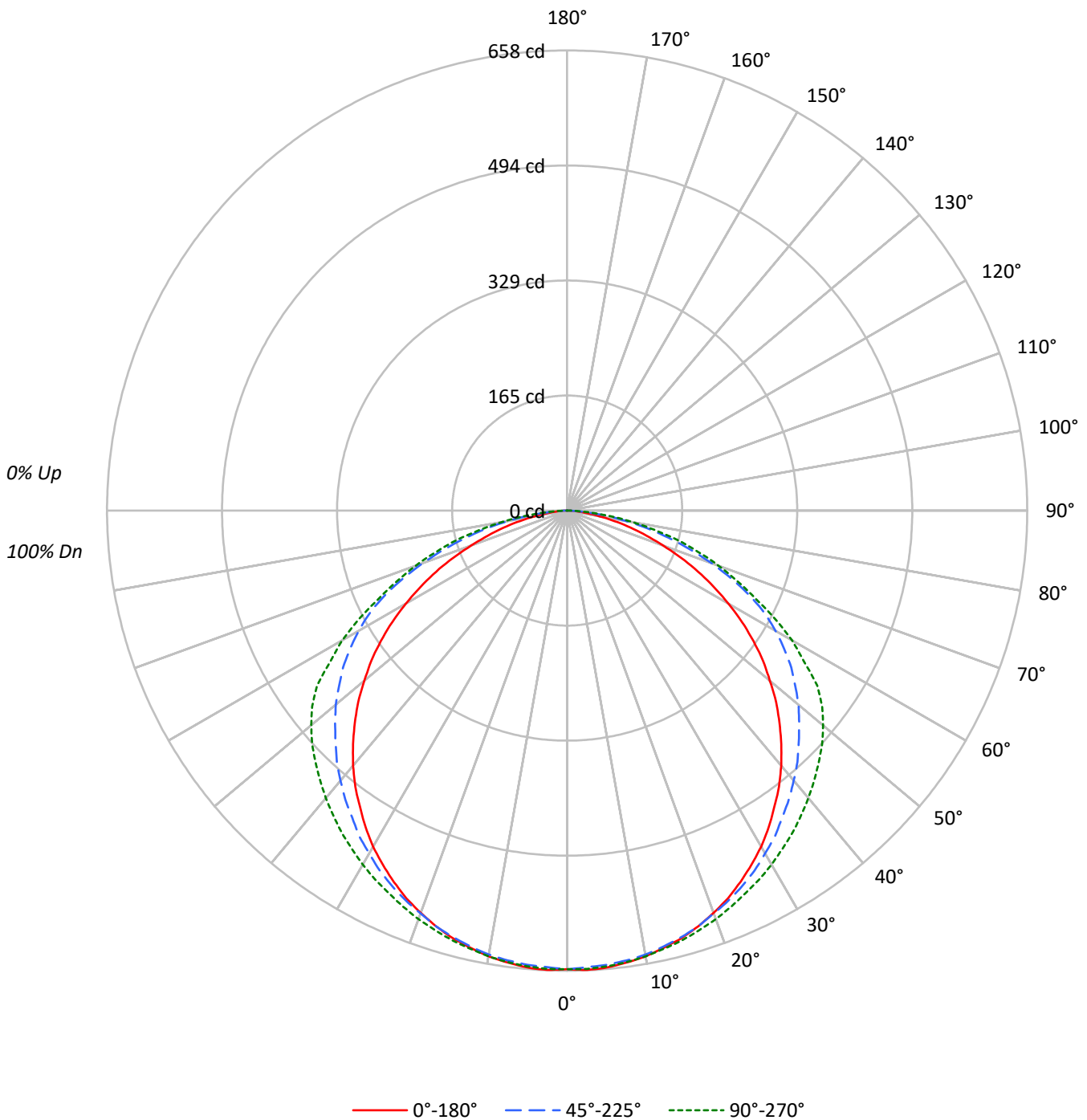
Input Watts (W): 22.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	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	53	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	35	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°	1765	1765	1765
5°	1772	1761	1767
10°	1768	1762	1768
15°	1763	1759	1772
20°	1753	1755	1780
25°	1740	1759	1792
30°	1724	1759	1816
35°	1698	1760	1847
40°	1673	1771	1885
45°	1634	1782	1936
50°	1584	1807	2000
55°	1526	1835	2048
60°	1433	1853	1998
65°	1316	1838	1889
70°	1145	1726	1814
75°	975	1554	1711
80°	739	1331	1478
85°	491	883	1031



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.1	3.1
10°-20°	178.7	8.9
20°-30°	273.8	13.6
30°-40°	337.0	16.8
40°-50°	362.2	18.0
50°-60°	343.9	17.1
60°-70°	266.5	13.3
70°-80°	150.4	7.5
80°-90°	35.5	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°	514.6	25.6
0°-40°	851.6	42.4
0°-60°	1557.8	77.5
0°-90°	2010.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2010.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	656	656	656	656	656	
5°	656	654	652	653	654	62
15°	633	632	631	634	636	179
25°	586	588	592	600	603	270
35°	517	523	536	554	562	324
45°	429	442	468	498	509	331
55°	325	351	391	425	436	290
65°	207	242	289	294	297	204
75°	94	133	150	159	165	100
85°	16	23	29	33	33	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	655.9	655.9	655.9	655.9	655.9
2.5°	657.5	655.9	653.5	655.1	655.9
5°	655.9	653.5	651.9	652.7	654.3
7.5°	651.9	650.4	648.8	650.4	651.1
10°	647.2	645.6	644.8	646.4	647.2
12.5°	640.0	639.2	638.4	640.8	641.6
15°	632.9	632.1	631.3	634.5	636.0
17.5°	623.3	622.5	623.3	626.5	628.9
20°	612.2	612.2	613.0	618.6	621.7
22.5°	600.3	601.1	603.4	609.0	613.0
25°	586.0	587.5	592.3	599.5	603.4
27.5°	570.8	573.2	580.4	589.1	594.7
30°	554.9	558.1	566.1	578.0	584.4
32.5°	536.7	540.6	552.6	566.9	573.2
35°	516.8	523.1	535.9	554.2	562.1
37.5°	497.7	504.1	520.8	540.6	549.4
40°	476.2	484.2	504.1	526.3	536.7
42.5°	453.2	463.5	487.4	512.8	523.1
45°	429.3	442.1	468.3	497.7	508.8
47.5°	405.5	419.0	450.0	481.8	494.5
50°	378.4	395.9	431.7	464.3	477.8
52.5°	353.0	372.9	411.0	445.2	459.5
55°	325.2	351.4	391.2	424.6	436.5
57.5°	296.6	326.0	368.1	398.3	401.5
60°	266.3	297.4	344.3	365.7	371.3
62.5°	236.1	270.3	318.8	334.7	335.5
65°	206.7	241.7	288.6	294.2	296.6
67.5°	176.5	215.5	254.4	258.4	263.2
70°	145.5	188.4	219.4	227.4	230.6
72.5°	118.5	160.6	183.7	193.2	196.4
75°	93.8	132.8	149.5	159.0	164.6
77.5°	69.2	102.6	117.7	125.6	128.0
80°	47.7	72.3	85.9	92.2	95.4
82.5°	30.2	46.1	54.9	61.2	62.8
85°	15.9	23.1	28.6	32.6	33.4
87.5°	6.4	7.2	9.5	15.9	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)