

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: P225692

Luminaire Tested: **24AC-LD5-68-SQP-UNV-L830-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: P225692  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35754)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24AC-LD5-68-SQP-UNV-L830-CD1-U  
Description: METALUX Accord 2X4 LED TROFFER WITH SQP LENS  
Light Source: (168)3000K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5314.3 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.45  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

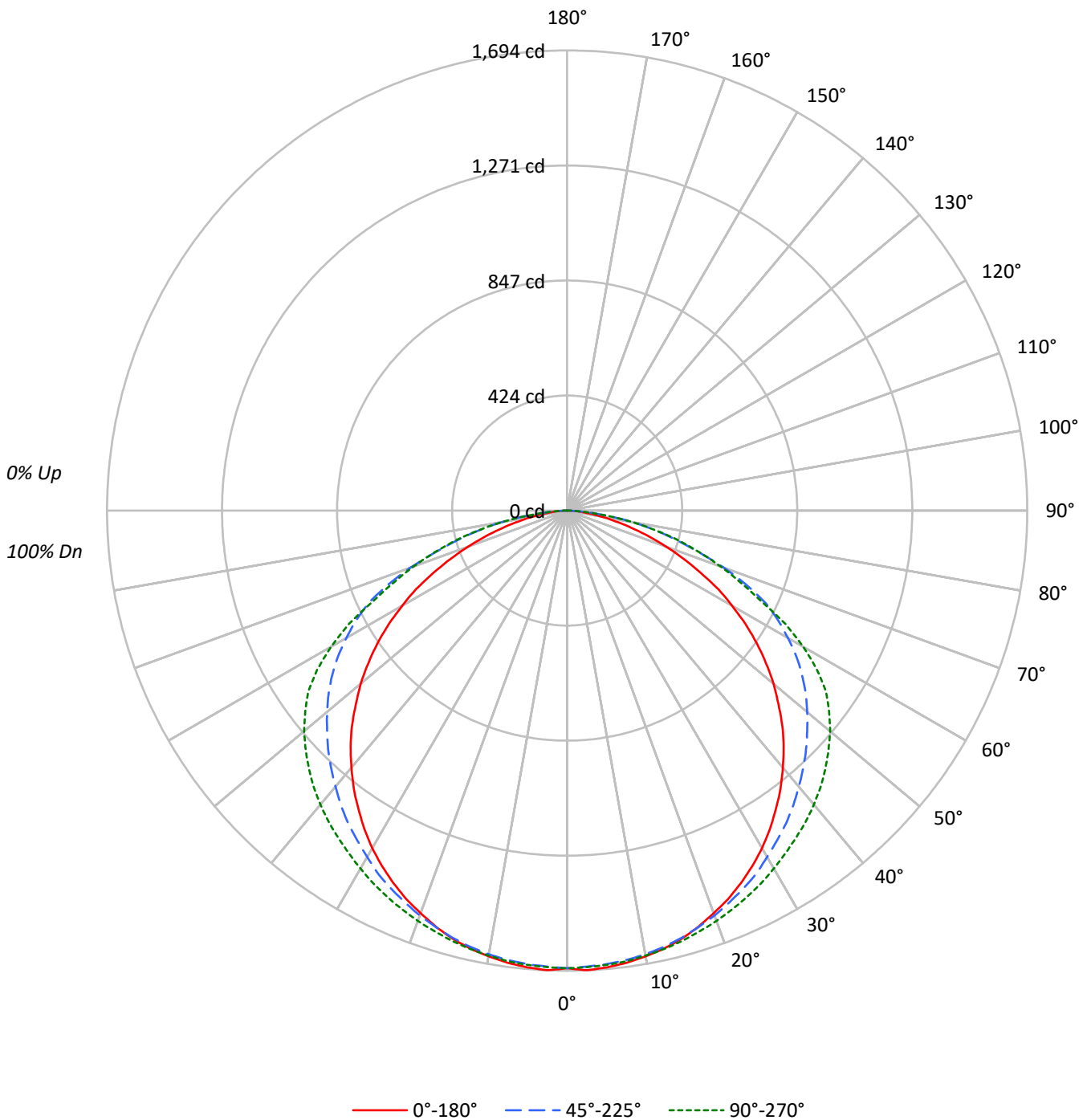
Input Watts (W): 65.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	58	45	36	30	43	36	30	42	35	30	41	35	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	29	25	36	29	24	35	29	24	23

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

	0°	45°	90°
0°	2267	2267	2267
5°	2279	2264	2268
10°	2276	2266	2272
15°	2272	2268	2284
20°	2258	2271	2302
25°	2246	2279	2328
30°	2229	2288	2364
35°	2201	2309	2414
40°	2170	2331	2481
45°	2132	2367	2558
50°	2077	2415	2646
55°	2000	2478	2730
60°	1887	2525	2701
65°	1728	2571	2506
70°	1522	2410	2364
75°	1271	2163	2208
80°	1003	1883	1871
85°	719	1190	1169



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.6	3.0
10°-20°	460.4	8.7
20°-30°	708.6	13.3
30°-40°	879.0	16.5
40°-50°	955.0	18.0
50°-60°	920.0	17.3
60°-70°	725.9	13.7
70°-80°	411.5	7.7
80°-90°	94.4	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°	1328.6	25.0
0°-40°	2207.6	41.5
0°-60°	4082.6	76.8
0°-90°	5314.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5314.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1685	1685	1685	1685	1685	
5°	1688	1680	1676	1673	1679	160
15°	1631	1627	1628	1631	1640	460
25°	1513	1515	1535	1554	1568	697
35°	1340	1357	1406	1448	1470	839
45°	1120	1158	1244	1315	1344	863
55°	853	931	1056	1135	1164	760
65°	543	672	808	799	787	538
75°	244	388	416	422	425	263
85°	47	76	77	77	76	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1684.8	1684.8	1684.8	1684.8	1684.8
2.5°	1693.5	1684.8	1680.4	1677.5	1681.9
5°	1687.7	1680.4	1676.1	1673.2	1679.0
7.5°	1679.0	1671.7	1668.8	1665.9	1673.2
10°	1665.9	1660.1	1658.6	1657.2	1663.0
12.5°	1651.3	1645.5	1645.5	1647.0	1652.8
15°	1631.0	1626.6	1628.1	1631.0	1639.7
17.5°	1606.2	1601.9	1607.7	1613.5	1623.7
20°	1577.1	1577.1	1585.9	1594.6	1607.7
22.5°	1548.0	1548.0	1561.1	1575.7	1588.8
25°	1513.1	1514.6	1534.9	1553.9	1568.4
27.5°	1475.3	1479.7	1507.3	1529.1	1546.6
30°	1434.6	1441.8	1472.4	1504.4	1521.9
32.5°	1389.5	1399.6	1438.9	1478.2	1495.7
35°	1340.0	1357.4	1405.5	1447.6	1469.5
37.5°	1290.5	1309.4	1367.6	1417.1	1443.3
40°	1235.2	1264.3	1326.9	1385.1	1412.7
42.5°	1179.9	1210.5	1286.2	1351.6	1380.7
45°	1120.3	1158.1	1244.0	1315.3	1344.4
47.5°	1054.8	1104.3	1198.9	1276.0	1305.1
50°	992.3	1049.0	1153.8	1233.8	1264.3
52.5°	922.4	989.3	1107.2	1188.7	1214.9
55°	852.6	931.2	1056.3	1134.8	1163.9
57.5°	778.4	867.1	1001.0	1073.7	1091.2
60°	701.3	806.0	938.4	1003.9	1003.9
62.5°	627.1	739.1	875.9	903.5	906.4
65°	542.7	672.2	807.5	798.8	787.1
67.5°	464.1	606.7	714.4	688.2	689.6
70°	387.0	535.4	612.5	598.0	600.9
72.5°	312.8	461.2	504.9	510.7	510.7
75°	244.4	388.5	416.1	421.9	424.8
77.5°	181.9	311.4	330.3	334.6	331.7
80°	129.5	212.4	243.0	240.1	241.5
82.5°	81.5	136.8	154.2	157.1	152.8
85°	46.6	75.7	77.1	77.1	75.7
87.5°	16.0	23.3	24.7	23.3	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)