

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: P225690

Luminaire Tested: **24AC-LD5-55-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: P225690  
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-LD5-55-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: 4350.7 lumens  
Efficiency: N/A  
Efficacy: 88.4 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

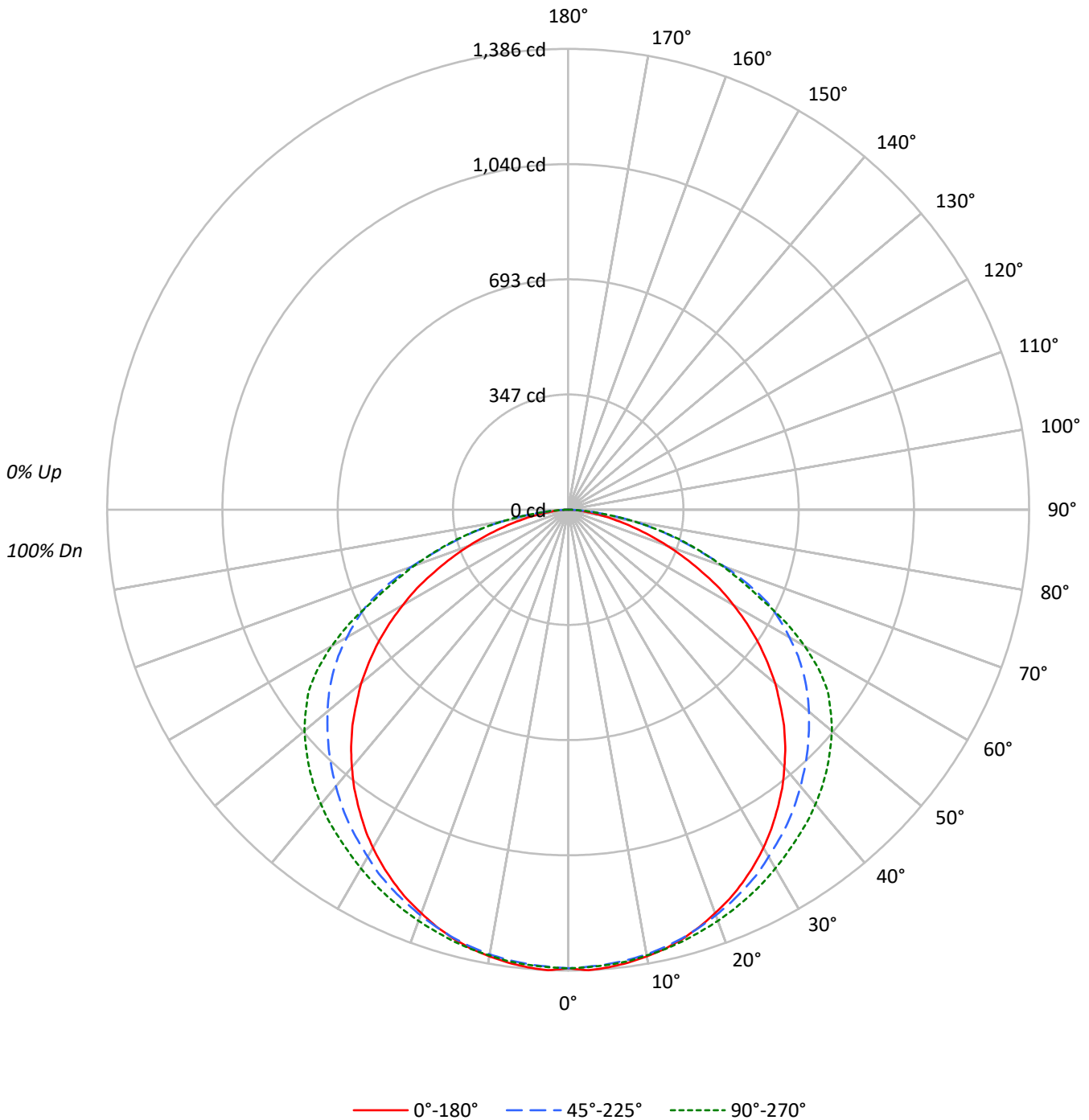
Input Watts (W): 49.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1856	1856	1856
5°	1866	1853	1856
10°	1863	1855	1860
15°	1860	1857	1870
20°	1849	1859	1885
25°	1839	1866	1906
30°	1825	1873	1936
35°	1802	1890	1976
40°	1776	1908	2031
45°	1745	1938	2094
50°	1700	1977	2167
55°	1637	2028	2235
60°	1545	2067	2212
65°	1415	2105	2052
70°	1246	1973	1935
75°	1040	1771	1808
80°	821	1541	1532
85°	588	974	956



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.7	3.0
10°-20°	376.9	8.7
20°-30°	580.1	13.3
30°-40°	719.6	16.5
40°-50°	781.8	18.0
50°-60°	753.2	17.3
60°-70°	594.2	13.7
70°-80°	336.9	7.7
80°-90°	77.3	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°	1087.7	25.0
0°-40°	1807.3	41.5
0°-60°	3342.3	76.8
0°-90°	4350.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4350.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1379	1379	1379	1379	1379	
5°	1382	1376	1372	1370	1374	131
15°	1335	1332	1333	1335	1342	377
25°	1239	1240	1257	1272	1284	571
35°	1097	1111	1151	1185	1203	686
45°	917	948	1018	1077	1101	706
55°	698	762	865	929	953	622
65°	444	550	661	654	644	441
75°	200	318	341	345	348	215
85°	38	62	63	63	62	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1379.3	1379.3	1379.3	1379.3	1379.3
2.5°	1386.5	1379.3	1375.7	1373.4	1376.9
5°	1381.7	1375.7	1372.2	1369.8	1374.5
7.5°	1374.5	1368.6	1366.2	1363.8	1369.8
10°	1363.8	1359.1	1357.9	1356.7	1361.4
12.5°	1351.9	1347.1	1347.1	1348.3	1353.1
15°	1335.2	1331.7	1332.9	1335.2	1342.4
17.5°	1315.0	1311.4	1316.2	1320.9	1329.3
20°	1291.2	1291.2	1298.3	1305.5	1316.2
22.5°	1267.3	1267.3	1278.1	1290.0	1300.7
25°	1238.8	1239.9	1256.6	1272.1	1284.0
27.5°	1207.8	1211.4	1234.0	1251.9	1266.2
30°	1174.4	1180.4	1205.4	1231.6	1245.9
32.5°	1137.5	1145.9	1178.0	1210.2	1224.5
35°	1097.0	1111.3	1150.6	1185.2	1203.0
37.5°	1056.5	1072.0	1119.6	1160.1	1181.6
40°	1011.3	1035.1	1086.3	1133.9	1156.6
42.5°	966.0	991.0	1052.9	1106.5	1130.4
45°	917.2	948.1	1018.4	1076.8	1100.6
47.5°	863.6	904.1	981.5	1044.6	1068.4
50°	812.3	858.8	944.6	1010.1	1035.1
52.5°	755.2	810.0	906.4	973.1	994.6
55°	698.0	762.3	864.7	929.1	952.9
57.5°	637.2	709.9	819.5	879.0	893.3
60°	574.1	659.9	768.3	821.9	821.9
62.5°	513.4	605.1	717.0	739.7	742.1
65°	444.3	550.3	661.1	653.9	644.4
67.5°	380.0	496.7	584.8	563.4	564.6
70°	316.8	438.3	501.5	489.5	491.9
72.5°	256.1	377.6	413.3	418.1	418.1
75°	200.1	318.0	340.7	345.4	347.8
77.5°	148.9	254.9	270.4	274.0	271.6
80°	106.0	173.9	198.9	196.5	197.7
82.5°	66.7	112.0	126.3	128.6	125.1
85°	38.1	61.9	63.1	63.1	61.9
87.5°	13.1	19.1	20.2	19.1	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)