

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: P225672

Luminaire Tested: **24AC-LD5-55-RDP-UNV-L835-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: P225672  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35755)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24AC-LD5-55-RDP-UNV-L835-CD1-U  
Description: METALUX Accord 2X4 LED TROFFER WITH RDP LENS  
Light Source: (168)3500K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4752.2 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.44  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

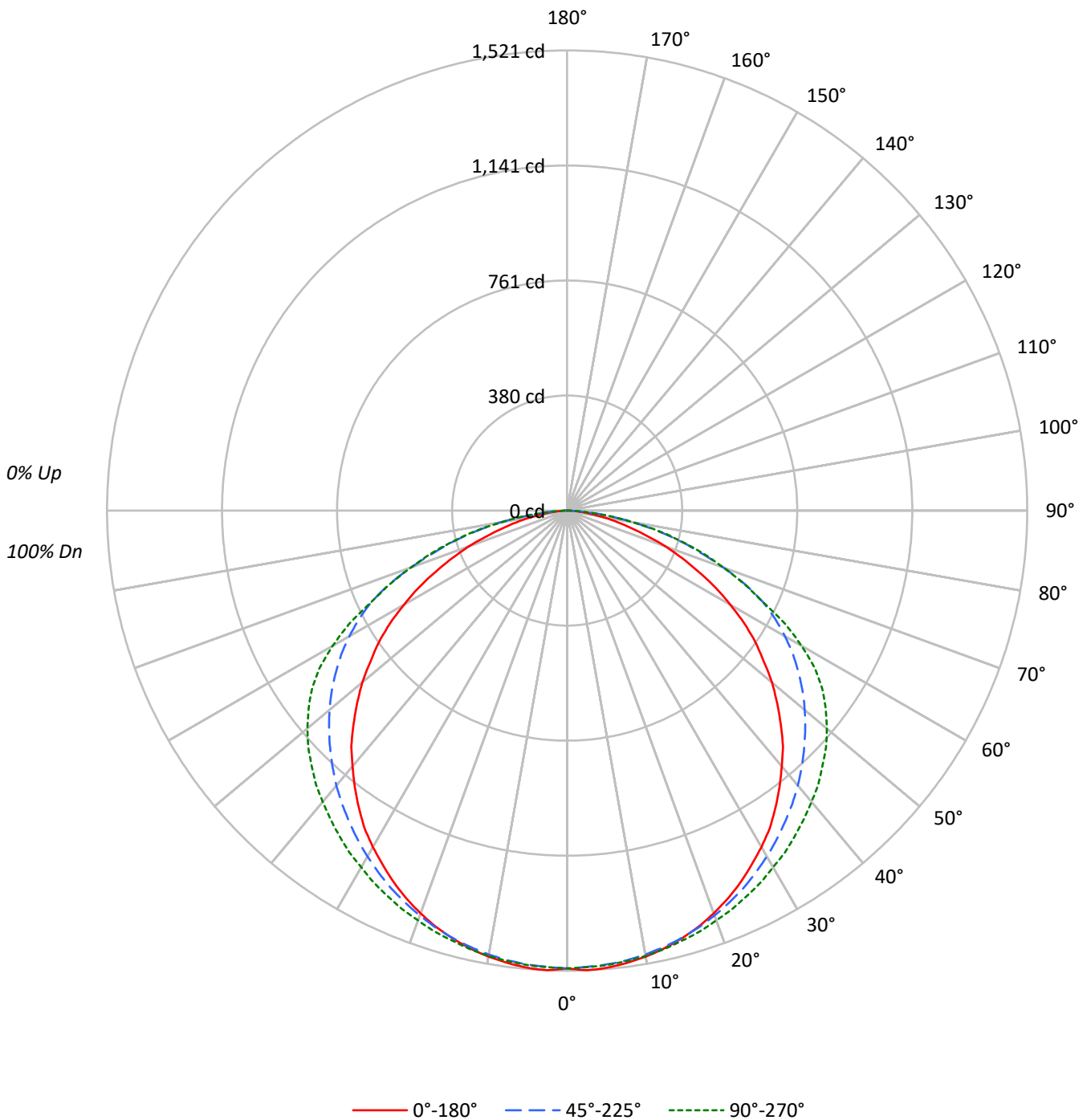
Input Watts (W): 49.15  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	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	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	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	30	25	36	29	24	35	29	24	23

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

	0°	45°	90°
0°	2036	2036	2036
5°	2049	2034	2037
10°	2046	2035	2042
15°	2039	2037	2049
20°	2028	2039	2064
25°	2013	2044	2087
30°	1995	2051	2115
35°	1971	2063	2156
40°	1938	2084	2208
45°	1899	2109	2272
50°	1851	2146	2346
55°	1784	2190	2417
60°	1676	2236	2409
65°	1530	2271	2267
70°	1359	2158	2158
75°	1107	1989	2015
80°	854	1718	1689
85°	593	1129	1051



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.4	3.0
10°-20°	413.4	8.7
20°-30°	635.6	13.4
30°-40°	786.3	16.5
40°-50°	851.3	17.9
50°-60°	816.5	17.2
60°-70°	648.1	13.6
70°-80°	372.2	7.8
80°-90°	85.5	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°	1192.4	25.1
0°-40°	1978.7	41.6
0°-60°	3646.5	76.7
0°-90°	4752.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4752.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1517	1510	1506	1503	1508	144
15°	1464	1460	1462	1465	1471	413
25°	1356	1360	1377	1394	1406	625
35°	1200	1216	1256	1294	1313	750
45°	998	1036	1108	1170	1194	770
55°	760	827	934	1004	1030	677
65°	480	594	713	723	712	477
75°	213	343	383	386	388	231
85°	38	67	73	69	68	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1513.3	1513.3	1513.3	1513.3	1513.3
2.5°	1520.7	1513.3	1509.6	1507.1	1510.8
5°	1517.0	1509.6	1505.9	1503.4	1508.3
7.5°	1508.3	1502.1	1499.7	1498.4	1502.1
10°	1497.2	1491.0	1489.8	1488.5	1494.7
12.5°	1482.3	1477.4	1477.4	1477.4	1484.8
15°	1463.7	1460.0	1462.5	1465.0	1471.2
17.5°	1442.7	1439.0	1445.2	1450.1	1458.8
20°	1416.7	1416.7	1424.1	1431.6	1441.5
22.5°	1388.2	1390.7	1401.8	1414.2	1425.4
25°	1356.0	1359.7	1377.1	1394.4	1405.5
27.5°	1320.1	1327.5	1349.8	1372.1	1385.7
30°	1284.2	1291.6	1320.1	1347.3	1361.0
32.5°	1245.8	1254.5	1289.1	1321.3	1339.9
35°	1200.0	1216.1	1255.7	1294.1	1312.7
37.5°	1152.9	1175.2	1222.3	1265.6	1285.4
40°	1103.4	1130.6	1186.4	1235.9	1256.9
42.5°	1056.3	1084.8	1148.0	1203.7	1228.5
45°	998.1	1036.5	1108.3	1170.3	1193.8
47.5°	941.2	987.0	1067.5	1133.1	1160.3
50°	884.2	935.0	1025.4	1097.2	1120.7
52.5°	819.8	881.7	980.8	1052.6	1077.4
55°	760.4	827.2	933.7	1004.3	1030.3
57.5°	694.7	770.3	885.4	954.8	970.9
60°	622.9	712.1	830.9	890.4	895.3
62.5°	554.8	655.1	775.2	812.4	813.6
65°	480.5	594.4	713.3	723.2	712.1
67.5°	411.1	530.0	636.5	629.1	632.8
70°	345.5	469.3	548.6	552.3	548.6
72.5°	273.7	406.2	461.9	470.6	471.8
75°	213.0	343.0	382.7	386.4	387.6
77.5°	162.2	274.9	298.4	304.6	308.4
80°	110.2	191.9	221.7	224.1	218.0
82.5°	71.8	123.8	141.2	141.2	139.9
85°	38.4	66.9	73.1	69.3	68.1
87.5°	13.6	19.8	22.3	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)