

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: P225697

Luminaire Tested: **24AC-LD5-44-SQP-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: P225697
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-LD5-44-SQP-UNV-L835-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH SQP 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: 3653.0 lumens
Efficiency: N/A
Efficacy: 96.4 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

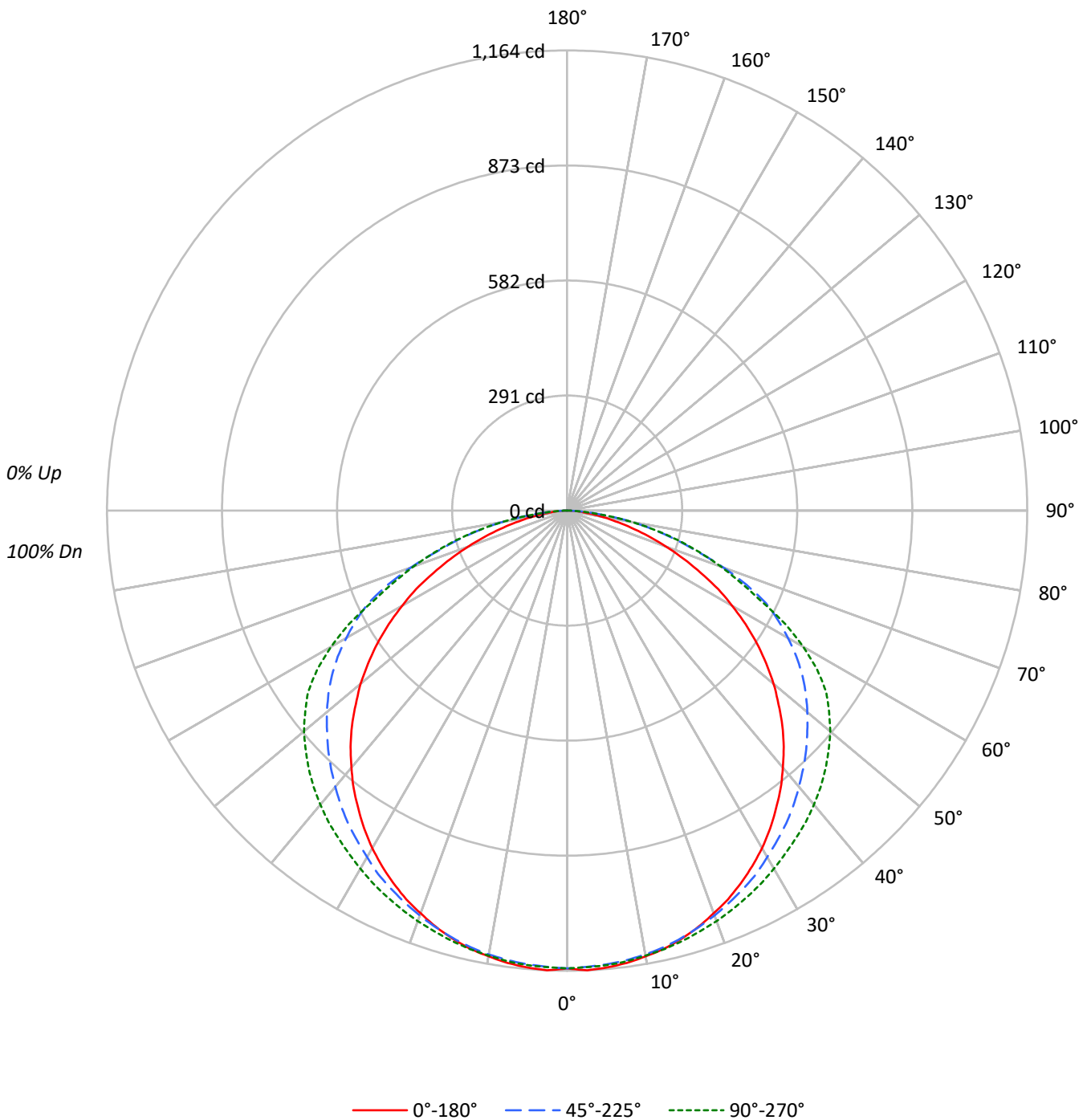
Input Watts (W): 37.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225697

CATALOG NUMBER: 24AC-LD5-44-SQP-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225697

CATALOG NUMBER: 24AC-LD5-44-SQP-UNV-L835-CD1-U

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°	1558	1558	1558
5°	1567	1556	1559
10°	1564	1558	1562
15°	1562	1559	1570
20°	1552	1561	1582
25°	1544	1566	1601
30°	1532	1572	1625
35°	1513	1587	1659
40°	1491	1602	1706
45°	1465	1627	1758
50°	1428	1660	1819
55°	1375	1703	1877
60°	1297	1736	1857
65°	1188	1767	1723
70°	1046	1656	1625
75°	873	1487	1518
80°	690	1294	1286
85°	494	818	803



TEST NUMBER: P225697

CATALOG NUMBER: 24AC-LD5-44-SQP-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	3.0
10°-20°	316.4	8.7
20°-30°	487.1	13.3
30°-40°	604.2	16.5
40°-50°	656.5	18.0
50°-60°	632.4	17.3
60°-70°	499.0	13.7
70°-80°	282.8	7.7
80°-90°	64.9	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°	913.2	25.0
0°-40°	1517.5	41.5
0°-60°	2806.3	76.8
0°-90°	3653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3653.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1160	1155	1152	1150	1154	110
15°	1121	1118	1119	1121	1127	316
25°	1040	1041	1055	1068	1078	479
35°	921	933	966	995	1010	576
45°	770	796	855	904	924	593
55°	586	640	726	780	800	523
65°	373	462	555	549	541	370
75°	168	267	286	290	292	181
85°	32	52	53	53	52	39
90°	0	0	0	0	0	



TEST NUMBER: P225697

CATALOG NUMBER: 24AC-LD5-44-SQP-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.1	1158.1	1158.1	1158.1	1158.1
2.5°	1164.1	1158.1	1155.1	1153.1	1156.1
5°	1160.1	1155.1	1152.1	1150.1	1154.1
7.5°	1154.1	1149.1	1147.1	1145.1	1150.1
10°	1145.1	1141.1	1140.1	1139.1	1143.1
12.5°	1135.1	1131.1	1131.1	1132.1	1136.1
15°	1121.1	1118.1	1119.1	1121.1	1127.1
17.5°	1104.1	1101.1	1105.1	1109.1	1116.1
20°	1084.1	1084.1	1090.1	1096.1	1105.1
22.5°	1064.1	1064.1	1073.1	1083.1	1092.1
25°	1040.1	1041.1	1055.1	1068.1	1078.1
27.5°	1014.1	1017.1	1036.1	1051.1	1063.1
30°	986.1	991.1	1012.1	1034.1	1046.1
32.5°	955.1	962.1	989.1	1016.1	1028.1
35°	921.1	933.1	966.1	995.1	1010.1
37.5°	887.1	900.1	940.1	974.1	992.1
40°	849.1	869.1	912.1	952.1	971.1
42.5°	811.1	832.1	884.1	929.1	949.1
45°	770.1	796.1	855.1	904.1	924.1
47.5°	725.1	759.1	824.1	877.1	897.1
50°	682.1	721.1	793.1	848.1	869.1
52.5°	634.1	680.1	761.1	817.1	835.1
55°	586.1	640.1	726.1	780.1	800.1
57.5°	535.1	596.1	688.1	738.1	750.1
60°	482.1	554.1	645.1	690.1	690.1
62.5°	431.0	508.1	602.1	621.1	623.1
65°	373.0	462.0	555.1	549.1	541.1
67.5°	319.0	417.0	491.1	473.1	474.1
70°	266.0	368.0	421.0	411.0	413.0
72.5°	215.0	317.0	347.0	351.0	351.0
75°	168.0	267.0	286.0	290.0	292.0
77.5°	125.0	214.0	227.0	230.0	228.0
80°	89.0	146.0	167.0	165.0	166.0
82.5°	56.0	94.0	106.0	108.0	105.0
85°	32.0	52.0	53.0	53.0	52.0
87.5°	11.0	16.0	17.0	16.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)