

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: P225701

Luminaire Tested: **24AC-LD5-68-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: P225701
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-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: 5525.0 lumens
Efficiency: N/A
Efficacy: 84.9 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

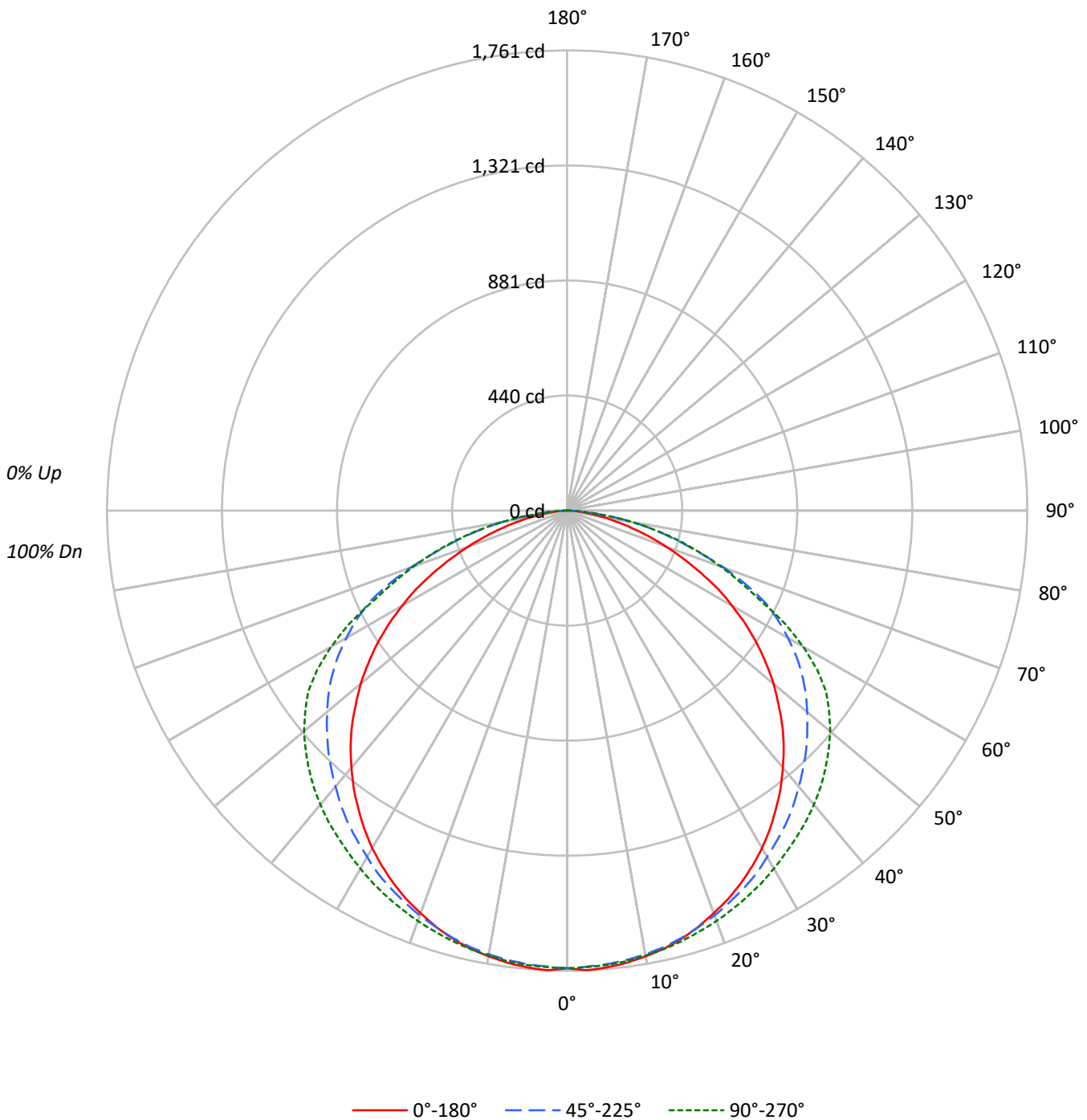
Input Watts (W): 65.05
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33
8	59	45	37	31	58	45	36	30	43	36	30	42	35	30	41	35	30
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27
10	52	38	30	25	50	38	30	25	37	29	25	36	29	24	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2357	2357	2357
5°	2370	2353	2358
10°	2366	2356	2362
15°	2362	2358	2375
20°	2348	2361	2393
25°	2335	2369	2421
30°	2317	2378	2458
35°	2288	2400	2509
40°	2256	2423	2580
45°	2216	2461	2660
50°	2159	2511	2752
55°	2079	2576	2839
60°	1962	2625	2809
65°	1796	2673	2605
70°	1583	2505	2458
75°	1321	2249	2296
80°	1043	1957	1946
85°	747	1238	1215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	3.0
10°-20°	478.6	8.7
20°-30°	736.7	13.3
30°-40°	913.9	16.5
40°-50°	992.8	18.0
50°-60°	956.5	17.3
60°-70°	754.6	13.7
70°-80°	427.8	7.7
80°-90°	98.1	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°	1381.3	25.0
0°-40°	2295.1	41.5
0°-60°	4244.4	76.8
0°-90°	5525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1752	1752	1752	1752	1752	
5°	1755	1747	1742	1740	1746	167
15°	1696	1691	1693	1696	1705	478
25°	1573	1575	1596	1616	1631	725
35°	1393	1411	1461	1505	1528	872
45°	1165	1204	1293	1367	1398	897
55°	886	968	1098	1180	1210	790
65°	564	699	840	830	818	560
75°	254	404	433	439	442	273
85°	48	79	80	80	79	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1751.6	1751.6	1751.6	1751.6	1751.6
2.5°	1760.7	1751.6	1747.1	1744.0	1748.6
5°	1754.6	1747.1	1742.5	1739.5	1745.6
7.5°	1745.6	1738.0	1735.0	1731.9	1739.5
10°	1731.9	1725.9	1724.4	1722.9	1728.9
12.5°	1716.8	1710.8	1710.8	1712.3	1718.3
15°	1695.6	1691.1	1692.6	1695.6	1704.7
17.5°	1669.9	1665.4	1671.4	1677.5	1688.1
20°	1639.7	1639.7	1648.8	1657.8	1671.4
22.5°	1609.4	1609.4	1623.0	1638.2	1651.8
25°	1573.1	1574.6	1595.8	1615.5	1630.6
27.5°	1533.8	1538.3	1567.1	1589.8	1607.9
30°	1491.4	1499.0	1530.8	1564.0	1582.2
32.5°	1444.6	1455.1	1496.0	1536.8	1555.0
35°	1393.1	1411.3	1461.2	1505.1	1527.7
37.5°	1341.7	1361.4	1421.9	1473.3	1500.5
40°	1284.2	1314.5	1379.5	1440.0	1468.8
42.5°	1226.7	1258.5	1337.2	1405.2	1435.5
45°	1164.7	1204.0	1293.3	1367.4	1397.7
47.5°	1096.6	1148.1	1246.4	1326.6	1356.8
50°	1031.6	1090.6	1199.5	1282.7	1314.5
52.5°	959.0	1028.6	1151.1	1235.8	1263.0
55°	886.4	968.1	1098.2	1179.8	1210.1
57.5°	809.3	901.5	1040.7	1116.3	1134.5
60°	729.1	838.0	975.6	1043.7	1043.7
62.5°	651.9	768.4	910.6	939.3	942.4
65°	564.2	698.8	839.5	830.4	818.3
67.5°	482.5	630.8	742.7	715.5	717.0
70°	402.4	556.6	636.8	621.7	624.7
72.5°	325.2	479.5	524.9	530.9	530.9
75°	254.1	403.9	432.6	438.7	441.7
77.5°	189.1	323.7	343.4	347.9	344.9
80°	134.6	220.8	252.6	249.6	251.1
82.5°	84.7	142.2	160.3	163.4	158.8
85°	48.4	78.7	80.2	80.2	78.7
87.5°	16.6	24.2	25.7	24.2	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)