

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: P225665

Luminaire Tested: **24AC-LD5-68-RDP-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: P225665
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-LD5-68-RDP-UNV-L830-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH RDP 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: 5583.4 lumens
Efficiency: N/A
Efficacy: 85.8 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

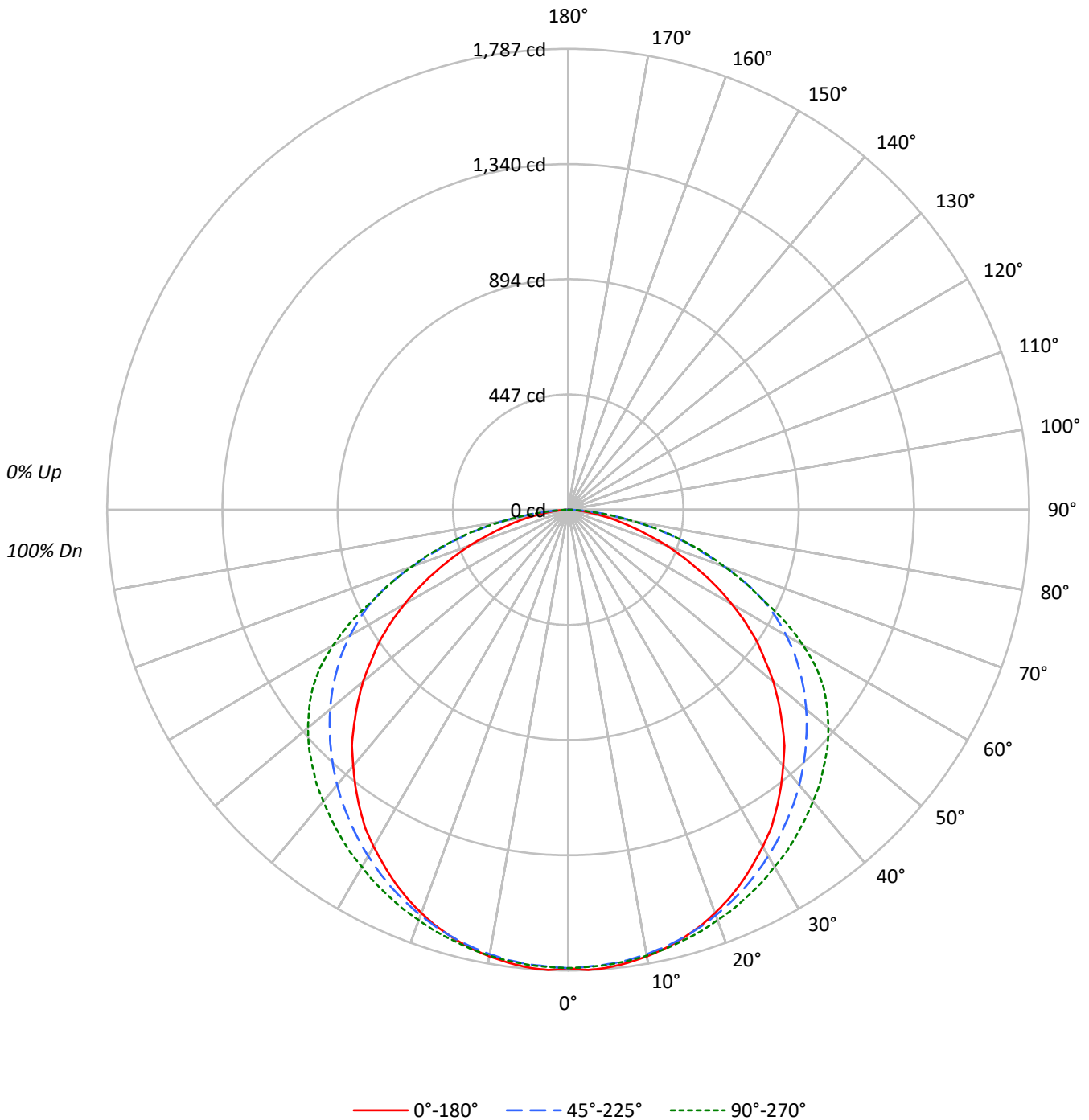
Input Watts (W): 65.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2392	2392	2392
5°	2407	2390	2393
10°	2403	2391	2399
15°	2396	2394	2408
20°	2383	2396	2425
25°	2365	2402	2452
30°	2344	2410	2484
35°	2316	2423	2533
40°	2277	2448	2594
45°	2231	2478	2669
50°	2174	2522	2756
55°	2095	2573	2840
60°	1969	2627	2831
65°	1797	2668	2663
70°	1597	2535	2535
75°	1301	2337	2367
80°	1003	2018	1984
85°	696	1325	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	3.0
10°-20°	485.7	8.7
20°-30°	746.7	13.4
30°-40°	923.8	16.5
40°-50°	1000.2	17.9
50°-60°	959.3	17.2
60°-70°	761.4	13.6
70°-80°	437.3	7.8
80°-90°	100.5	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°	1401.0	25.1
0°-40°	2324.8	41.6
0°-60°	4284.3	76.7
0°-90°	5583.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5583.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1782	1774	1769	1766	1772	169
15°	1720	1715	1718	1721	1728	485
25°	1593	1598	1618	1638	1651	734
35°	1410	1429	1475	1520	1542	882
45°	1173	1218	1302	1375	1403	905
55°	893	972	1097	1180	1210	795
65°	564	698	838	850	837	561
75°	250	403	450	454	455	271
85°	45	79	86	82	80	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1777.9	1777.9	1777.9	1777.9	1777.9
2.5°	1786.7	1777.9	1773.6	1770.7	1775.0
5°	1782.3	1773.6	1769.2	1766.3	1772.1
7.5°	1772.1	1764.9	1761.9	1760.5	1764.9
10°	1759.0	1751.8	1750.3	1748.9	1756.1
12.5°	1741.6	1735.8	1735.8	1735.8	1744.5
15°	1719.8	1715.4	1718.3	1721.2	1728.5
17.5°	1695.0	1690.7	1697.9	1703.7	1713.9
20°	1664.5	1664.5	1673.2	1681.9	1693.6
22.5°	1631.0	1633.9	1647.0	1661.6	1674.6
25°	1593.2	1597.5	1617.9	1638.3	1651.4
27.5°	1551.0	1559.7	1585.9	1612.1	1628.1
30°	1508.8	1517.5	1551.0	1583.0	1599.0
32.5°	1463.7	1473.9	1514.6	1552.4	1574.3
35°	1409.8	1428.8	1475.3	1520.4	1542.2
37.5°	1354.6	1380.7	1436.0	1487.0	1510.2
40°	1296.4	1328.4	1393.8	1452.0	1476.8
42.5°	1241.1	1274.5	1348.7	1414.2	1443.3
45°	1172.7	1217.8	1302.2	1374.9	1402.6
47.5°	1105.8	1159.6	1254.2	1331.3	1363.3
50°	1038.8	1098.5	1204.7	1289.1	1316.7
52.5°	963.2	1035.9	1152.3	1236.7	1265.8
55°	893.3	971.9	1097.0	1180.0	1210.5
57.5°	816.2	905.0	1040.3	1121.8	1140.7
60°	731.8	836.6	976.3	1046.1	1051.9
62.5°	651.8	769.7	910.8	954.4	955.9
65°	564.5	698.4	838.1	849.7	836.6
67.5°	483.0	622.7	747.8	739.1	743.5
70°	405.9	551.4	644.5	648.9	644.5
72.5°	321.5	477.2	542.7	552.9	554.3
75°	250.3	403.0	449.6	453.9	455.4
77.5°	190.6	323.0	350.6	357.9	362.3
80°	129.5	225.5	260.4	263.3	256.1
82.5°	84.4	145.5	165.9	165.9	164.4
85°	45.1	78.6	85.8	81.5	80.0
87.5°	16.0	23.3	26.2	26.2	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)