

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: P225683

Luminaire Tested: **24AC-LD5-68-RDP-UNV-L840-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: P225683
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-L840-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH RDP LENS
Light Source: (168)4000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5920.9 lumens
Efficiency: N/A
Efficacy: 91.0 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

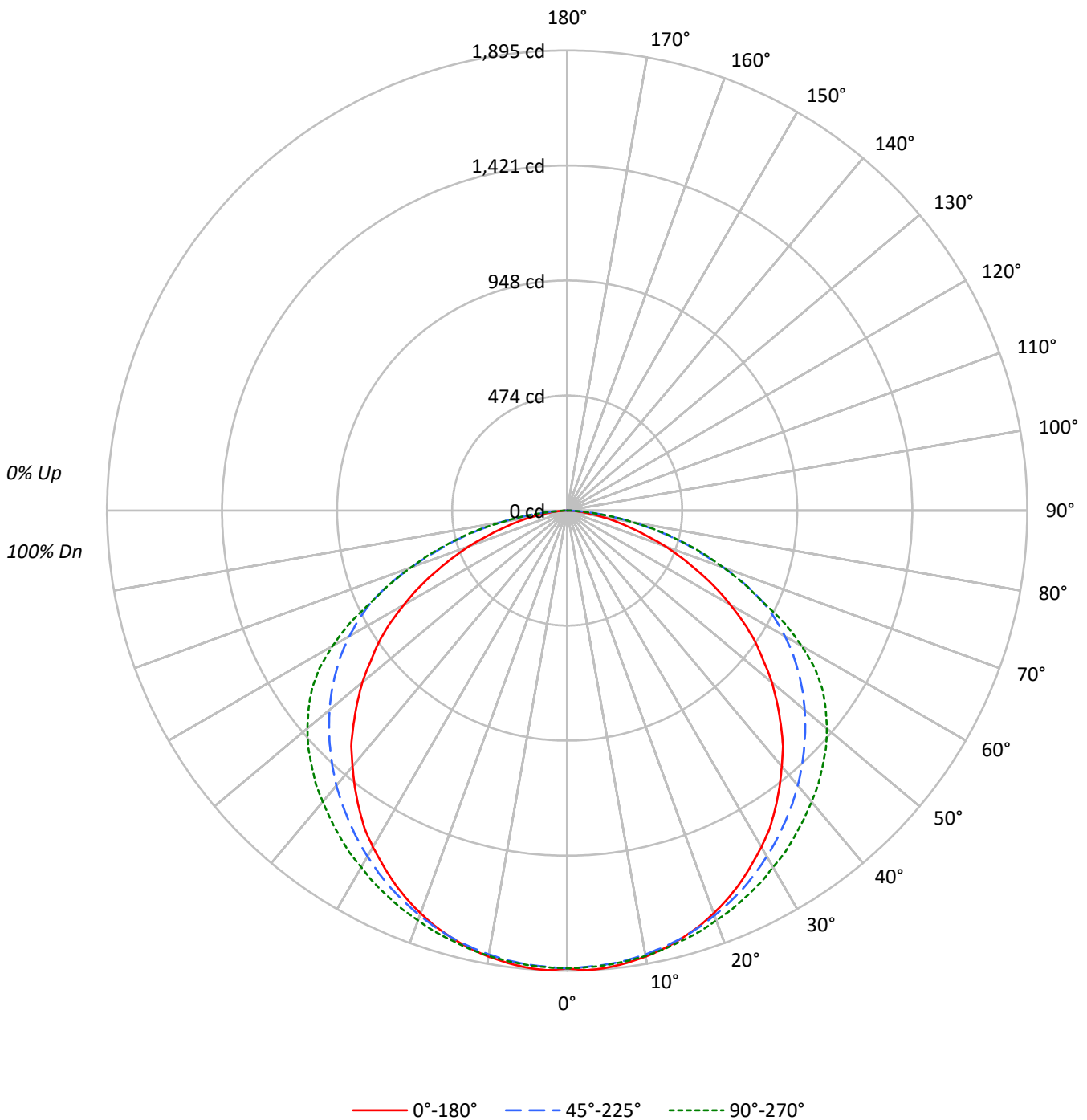
Input Watts (W): 65.05
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2537	2537	2537
5°	2553	2534	2538
10°	2549	2536	2544
15°	2540	2538	2553
20°	2527	2541	2571
25°	2508	2547	2600
30°	2486	2555	2634
35°	2456	2570	2686
40°	2415	2596	2751
45°	2366	2628	2830
50°	2306	2674	2923
55°	2222	2729	3011
60°	2088	2786	3002
65°	1906	2829	2825
70°	1694	2689	2689
75°	1380	2479	2510
80°	1064	2140	2104
85°	738	1405	1311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	3.0
10°-20°	515.1	8.7
20°-30°	791.9	13.4
30°-40°	979.7	16.5
40°-50°	1060.7	17.9
50°-60°	1017.3	17.2
60°-70°	807.4	13.6
70°-80°	463.7	7.8
80°-90°	106.5	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°	1485.7	25.1
0°-40°	2465.3	41.6
0°-60°	4543.2	76.7
0°-90°	5920.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5920.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1885	1885	1885	1885	1885	
5°	1890	1881	1876	1873	1879	180
15°	1824	1819	1822	1825	1833	515
25°	1690	1694	1716	1737	1751	778
35°	1495	1515	1564	1612	1636	935
45°	1244	1291	1381	1458	1487	959
55°	947	1031	1163	1251	1284	844
65°	599	741	889	901	887	595
75°	265	427	477	481	483	288
85°	48	83	91	86	85	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1885.4	1885.4	1885.4	1885.4	1885.4
2.5°	1894.7	1885.4	1880.8	1877.7	1882.3
5°	1890.0	1880.8	1876.2	1873.1	1879.2
7.5°	1879.2	1871.5	1868.4	1866.9	1871.5
10°	1865.4	1857.6	1856.1	1854.6	1862.3
12.5°	1846.8	1840.7	1840.7	1840.7	1849.9
15°	1823.7	1819.1	1822.2	1825.2	1833.0
17.5°	1797.5	1792.8	1800.6	1806.7	1817.5
20°	1765.1	1765.1	1774.3	1783.6	1795.9
22.5°	1729.6	1732.7	1746.6	1762.0	1775.9
25°	1689.5	1694.1	1715.7	1737.3	1751.2
27.5°	1644.7	1654.0	1681.8	1709.5	1726.5
30°	1600.0	1609.2	1644.7	1678.7	1695.6
32.5°	1552.2	1563.0	1606.2	1646.3	1669.4
35°	1495.1	1515.1	1564.5	1612.3	1635.5
37.5°	1436.4	1464.2	1522.8	1576.8	1601.5
40°	1374.7	1408.7	1478.1	1539.8	1566.0
42.5°	1316.1	1351.6	1430.3	1499.7	1530.6
45°	1243.6	1291.4	1380.9	1458.0	1487.4
47.5°	1172.6	1229.7	1330.0	1411.8	1445.7
50°	1101.6	1164.9	1277.5	1367.0	1396.3
52.5°	1021.4	1098.5	1222.0	1311.5	1342.3
55°	947.3	1030.7	1163.3	1251.3	1283.7
57.5°	865.6	959.7	1103.2	1189.6	1209.6
60°	776.1	887.2	1035.3	1109.3	1115.5
62.5°	691.2	816.2	965.9	1012.1	1013.7
65°	598.6	740.6	888.7	901.1	887.2
67.5°	512.2	660.4	793.0	783.8	788.4
70°	430.5	584.8	683.5	688.1	683.5
72.5°	341.0	506.1	575.5	586.3	587.8
75°	265.4	427.4	476.8	481.4	482.9
77.5°	202.1	342.5	371.8	379.6	384.2
80°	137.3	239.1	276.2	279.3	271.5
82.5°	89.5	154.3	175.9	175.9	174.3
85°	47.8	83.3	91.0	86.4	84.9
87.5°	17.0	24.7	27.8	27.8	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)