

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: P225710

Luminaire Tested: **24AC-LD5-68-SQP-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: P225710
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-L840-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH SQP 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: 5635.5 lumens
Efficiency: N/A
Efficacy: 86.6 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

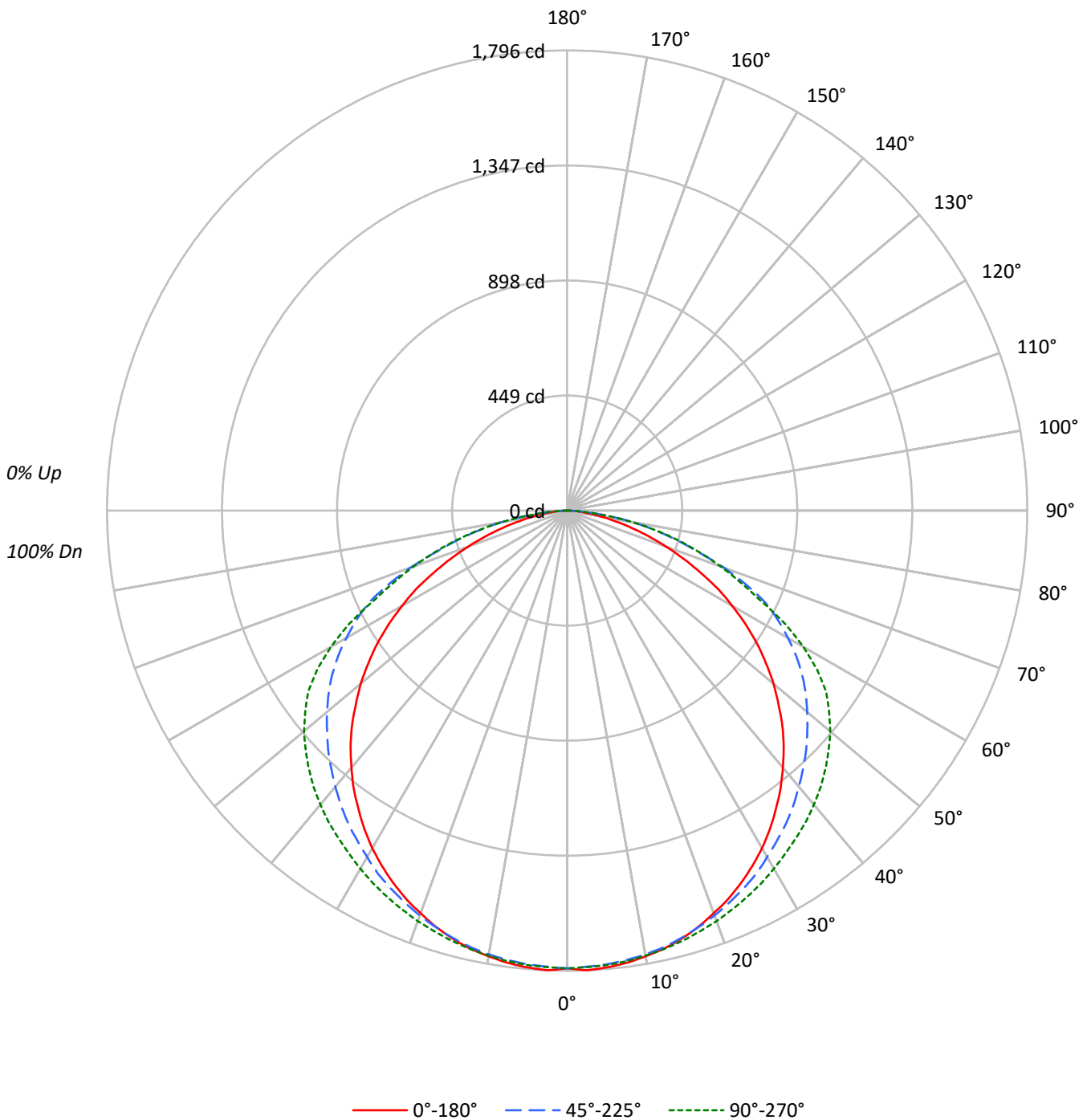
Input Watts (W): 65.05
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2404	2404	2404
5°	2417	2401	2405
10°	2414	2403	2409
15°	2409	2405	2422
20°	2395	2408	2441
25°	2382	2416	2469
30°	2364	2426	2507
35°	2334	2448	2560
40°	2301	2471	2631
45°	2261	2510	2713
50°	2202	2561	2807
55°	2121	2628	2895
60°	2001	2678	2865
65°	1832	2726	2657
70°	1614	2555	2507
75°	1347	2294	2342
80°	1064	1997	1984
85°	763	1263	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	3.0
10°-20°	488.2	8.7
20°-30°	751.4	13.3
30°-40°	932.1	16.5
40°-50°	1012.7	18.0
50°-60°	975.6	17.3
60°-70°	769.7	13.7
70°-80°	436.4	7.7
80°-90°	100.1	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°	1408.9	25.0
0°-40°	2341.0	41.5
0°-60°	4329.3	76.8
0°-90°	5635.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5635.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1787	1787	1787	1787	1787	
5°	1790	1782	1777	1774	1780	170
15°	1730	1725	1726	1730	1739	488
25°	1605	1606	1628	1648	1663	739
35°	1421	1440	1490	1535	1558	889
45°	1188	1228	1319	1395	1426	915
55°	904	987	1120	1203	1234	806
65°	576	713	856	847	835	571
75°	259	412	441	447	450	279
85°	49	80	82	82	80	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1786.6	1786.6	1786.6	1786.6	1786.6
2.5°	1795.9	1786.6	1782.0	1778.9	1783.6
5°	1789.7	1782.0	1777.4	1774.3	1780.5
7.5°	1780.5	1772.8	1769.7	1766.6	1774.3
10°	1766.6	1760.4	1758.9	1757.3	1763.5
12.5°	1751.2	1745.0	1745.0	1746.5	1752.7
15°	1729.6	1724.9	1726.5	1729.6	1738.8
17.5°	1703.3	1698.7	1704.9	1711.0	1721.8
20°	1672.5	1672.5	1681.7	1691.0	1704.9
22.5°	1641.6	1641.6	1655.5	1670.9	1684.8
25°	1604.6	1606.1	1627.7	1647.8	1663.2
27.5°	1564.5	1569.1	1598.4	1621.6	1640.1
30°	1521.3	1529.0	1561.4	1595.3	1613.8
32.5°	1473.4	1484.2	1525.9	1567.6	1586.1
35°	1421.0	1439.5	1490.4	1535.2	1558.3
37.5°	1368.5	1388.6	1450.3	1502.8	1530.5
40°	1309.9	1340.8	1407.1	1468.8	1498.1
42.5°	1251.3	1283.7	1363.9	1433.3	1464.2
45°	1188.0	1228.1	1319.2	1394.8	1425.6
47.5°	1118.6	1171.0	1271.3	1353.1	1384.0
50°	1052.2	1112.4	1223.5	1308.4	1340.8
52.5°	978.2	1049.2	1174.1	1260.5	1288.3
55°	904.1	987.4	1120.1	1203.4	1234.3
57.5°	825.4	919.6	1061.5	1138.6	1157.2
60°	743.7	854.8	995.2	1064.6	1064.6
62.5°	665.0	783.8	928.8	958.1	961.2
65°	575.5	712.8	856.3	847.0	834.7
67.5°	492.2	643.4	757.5	729.8	731.3
70°	410.4	567.8	649.5	634.1	637.2
72.5°	331.7	489.1	535.4	541.5	541.5
75°	259.2	411.9	441.3	447.4	450.5
77.5°	192.9	330.2	350.2	354.9	351.8
80°	137.3	225.3	257.7	254.6	256.1
82.5°	86.4	145.0	163.5	166.6	162.0
85°	49.4	80.2	81.8	81.8	80.2
87.5°	17.0	24.7	26.2	24.7	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)