

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: P225654

Luminaire Tested: **24AC-LD5-55-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: P225654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35753)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24AC-LD5-55-UNV-L840-CD1-U
Description: METALUX Accord 2X4 LED TROFFER
Light Source: (168)4000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

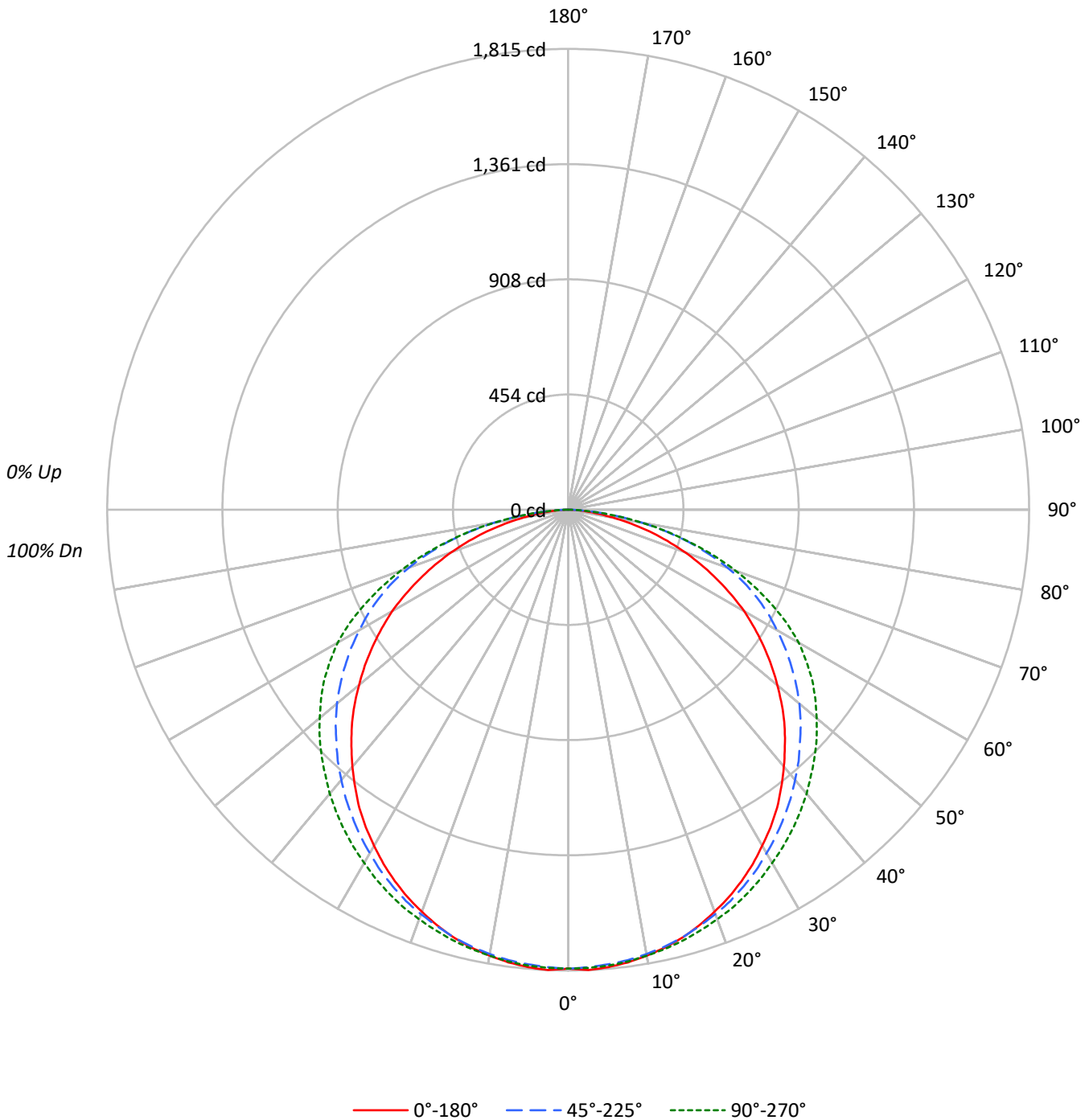
Lumens per Lamp: N/A
Luminaire Lumens: 5678.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.15
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	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51		62	56	51		60	54	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	68	55	45	39	67	54	45	39	52	44	38		50	43	38		49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34		46	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27		38	32	27		37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24		36	29	24		35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2432	2432	2432
5°	2443	2427	2434
10°	2436	2428	2436
15°	2430	2428	2445
20°	2412	2427	2458
25°	2396	2428	2477
30°	2374	2427	2496
35°	2355	2431	2527
40°	2320	2440	2564
45°	2293	2456	2612
50°	2250	2488	2673
55°	2207	2515	2752
60°	2155	2552	2821
65°	2051	2610	2819
70°	1923	2624	2758
75°	1720	2547	2581
80°	1380	2280	2290
85°	974	1658	1559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	3.0
10°-20°	492.4	8.7
20°-30°	754.5	13.3
30°-40°	927.4	16.3
40°-50°	994.8	17.5
50°-60°	951.3	16.8
60°-70°	782.5	13.8
70°-80°	481.2	8.5
80°-90°	122.8	2.2
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°	1418.0	25.0
0°-40°	2345.4	41.3
0°-60°	4291.5	75.6
0°-90°	5678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1807	1807	1807	1807	1807	
5°	1809	1801	1797	1795	1802	172
15°	1744	1738	1743	1746	1756	492
25°	1614	1614	1636	1653	1668	744
35°	1434	1442	1480	1518	1538	896
45°	1205	1228	1291	1348	1373	928
55°	941	986	1072	1144	1173	841
65°	644	716	820	869	885	638
75°	331	429	490	499	496	350
85°	63	104	107	104	101	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1807.3	1807.3	1807.3	1807.3	1807.3
2.5°	1814.9	1806.1	1803.5	1799.8	1806.1
5°	1808.6	1801.0	1797.2	1794.7	1802.3
7.5°	1798.5	1790.9	1789.7	1787.1	1794.7
10°	1783.3	1777.0	1777.0	1775.8	1783.3
12.5°	1765.7	1758.1	1761.9	1763.1	1770.7
15°	1744.2	1737.9	1742.9	1745.5	1755.6
17.5°	1716.4	1711.3	1718.9	1726.5	1736.6
20°	1684.8	1683.6	1694.9	1705.0	1716.4
22.5°	1652.0	1652.0	1668.4	1679.8	1694.9
25°	1614.1	1614.1	1635.6	1653.3	1668.4
27.5°	1573.7	1576.2	1601.5	1622.9	1639.4
30°	1528.2	1535.8	1562.3	1588.8	1606.5
32.5°	1482.7	1489.1	1523.2	1557.3	1573.7
35°	1433.5	1442.3	1480.2	1518.1	1538.3
37.5°	1377.9	1390.6	1437.3	1479.0	1500.4
40°	1321.1	1337.5	1389.3	1437.3	1460.0
42.5°	1263.0	1285.7	1342.6	1391.8	1415.8
45°	1204.9	1227.6	1290.8	1347.6	1372.9
47.5°	1141.7	1169.5	1241.5	1299.6	1327.4
50°	1074.8	1107.6	1188.5	1249.1	1276.9
52.5°	1009.1	1047.0	1131.6	1199.8	1226.4
55°	940.9	986.4	1072.3	1144.3	1173.3
57.5°	870.2	922.0	1012.9	1086.2	1111.4
60°	800.7	852.5	948.5	1023.0	1048.3
62.5°	722.4	785.6	887.9	957.3	971.2
65°	644.1	716.1	819.7	868.9	885.4
67.5°	567.1	645.4	749.0	784.3	794.4
70°	488.8	569.6	666.9	695.9	701.0
72.5°	409.2	500.1	582.2	598.7	601.2
75°	330.9	429.4	490.0	498.9	496.4
77.5°	253.9	351.1	394.1	397.8	399.1
80°	178.1	269.0	294.3	295.5	295.5
82.5°	114.9	186.9	199.6	197.0	199.6
85°	63.1	103.6	107.4	103.6	101.0
87.5°	20.2	30.3	32.8	31.6	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)