

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: P225636

Luminaire Tested: **24AC-LD5-55-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: P225636
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-L830-CD1-U
Description: METALUX Accord 2X4 LED TROFFER
Light Source: (168)3000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

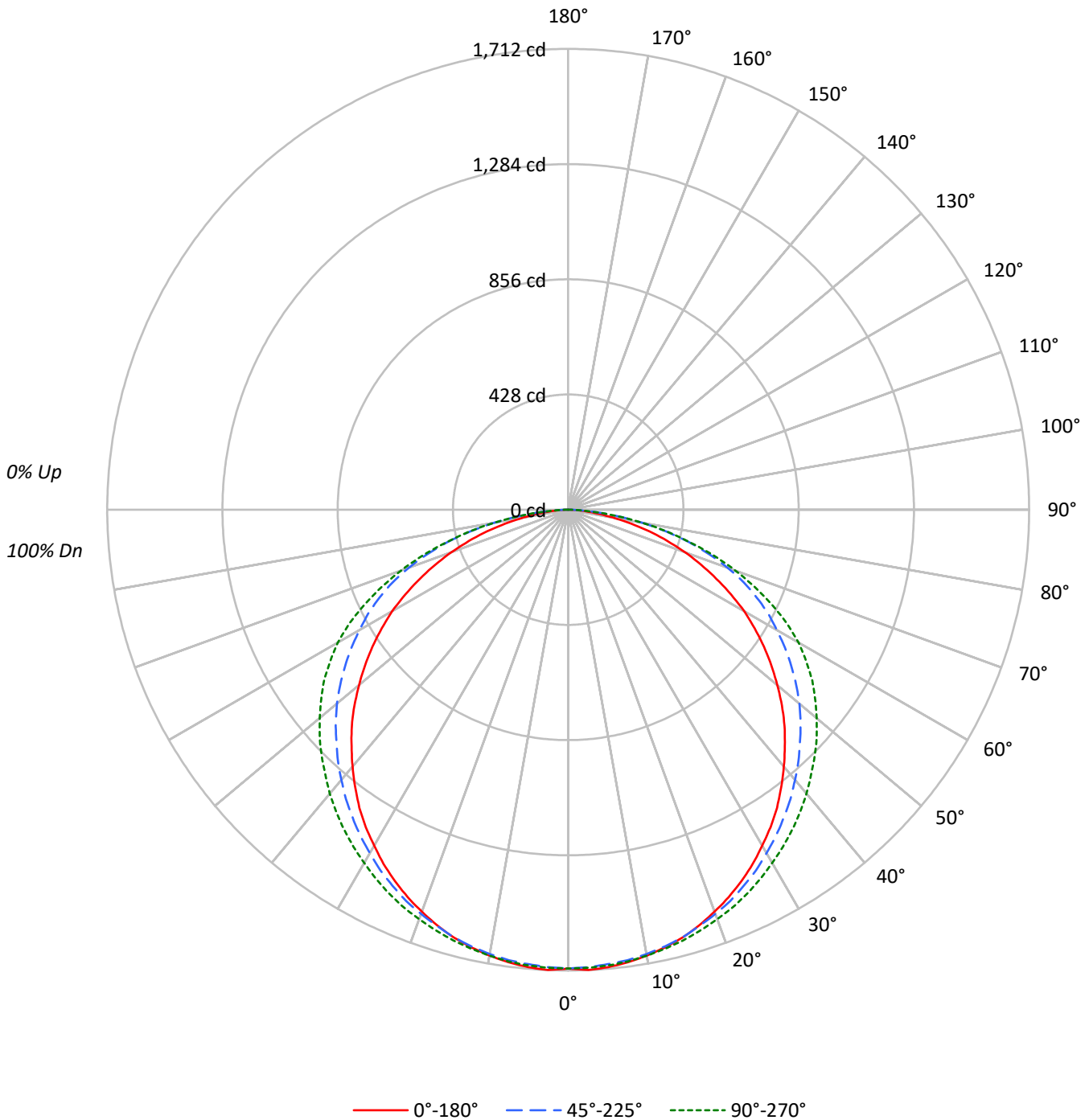
Lumens per Lamp: N/A
Luminaire Lumens: 5355.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.2
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°	2293	2293	2293
5°	2304	2289	2296
10°	2298	2290	2298
15°	2291	2290	2306
20°	2275	2289	2318
25°	2260	2290	2336
30°	2239	2289	2354
35°	2221	2293	2383
40°	2188	2301	2419
45°	2162	2316	2464
50°	2122	2346	2521
55°	2082	2372	2596
60°	2032	2407	2660
65°	1934	2461	2658
70°	1814	2474	2601
75°	1622	2403	2433
80°	1302	2150	2159
85°	920	1562	1471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	3.0
10°-20°	464.4	8.7
20°-30°	711.6	13.3
30°-40°	874.6	16.3
40°-50°	938.2	17.5
50°-60°	897.2	16.8
60°-70°	738.0	13.8
70°-80°	453.8	8.5
80°-90°	115.8	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°	1337.4	25.0
0°-40°	2212.0	41.3
0°-60°	4047.4	75.6
0°-90°	5355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1706	1699	1695	1693	1700	162
15°	1645	1639	1644	1646	1656	464
25°	1522	1522	1542	1559	1574	702
35°	1352	1360	1396	1432	1451	845
45°	1136	1158	1217	1271	1295	875
55°	887	930	1011	1079	1107	793
65°	608	675	773	820	835	602
75°	312	405	462	470	468	330
85°	60	98	101	98	95	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1704.5	1704.5	1704.5	1704.5	1704.5
2.5°	1711.7	1703.3	1701.0	1697.4	1703.3
5°	1705.7	1698.6	1695.0	1692.6	1699.8
7.5°	1696.2	1689.0	1687.8	1685.5	1692.6
10°	1681.9	1675.9	1675.9	1674.7	1681.9
12.5°	1665.2	1658.1	1661.6	1662.8	1670.0
15°	1645.0	1639.0	1643.8	1646.2	1655.7
17.5°	1618.8	1614.0	1621.1	1628.3	1637.8
20°	1589.0	1587.8	1598.5	1608.0	1618.8
22.5°	1558.0	1558.0	1573.5	1584.2	1598.5
25°	1522.3	1522.3	1542.5	1559.2	1573.5
27.5°	1484.2	1486.5	1510.4	1530.6	1546.1
30°	1441.3	1448.4	1473.4	1498.5	1515.1
32.5°	1398.4	1404.4	1436.5	1468.7	1484.2
35°	1351.9	1360.3	1396.0	1431.8	1450.8
37.5°	1299.5	1311.4	1355.5	1394.8	1415.1
40°	1245.9	1261.4	1310.3	1355.5	1377.0
42.5°	1191.1	1212.6	1266.2	1312.6	1335.3
45°	1136.3	1157.8	1217.3	1270.9	1294.8
47.5°	1076.8	1103.0	1170.9	1225.7	1251.9
50°	1013.7	1044.6	1120.9	1178.0	1204.2
52.5°	951.7	987.5	1067.3	1131.6	1156.6
55°	887.4	930.3	1011.3	1079.2	1106.6
57.5°	820.7	869.5	955.3	1024.4	1048.2
60°	755.2	804.0	894.5	964.8	988.6
62.5°	681.3	740.9	837.4	902.9	916.0
65°	607.5	675.4	773.1	819.5	835.0
67.5°	534.8	608.7	706.3	739.7	749.2
70°	461.0	537.2	628.9	656.3	661.1
72.5°	385.9	471.7	549.1	564.6	567.0
75°	312.1	405.0	462.2	470.5	468.1
77.5°	239.4	331.1	371.6	375.2	376.4
80°	168.0	253.7	277.5	278.7	278.7
82.5°	108.4	176.3	188.2	185.8	188.2
85°	59.6	97.7	101.2	97.7	95.3
87.5°	19.1	28.6	31.0	29.8	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)