

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: P225645

Luminaire Tested: **24AC-LD5-55-UNV-L835-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: P225645
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-L835-CD1-U
Description: METALUX Accord 2X4 LED TROFFER
Light Source: (168)3500K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

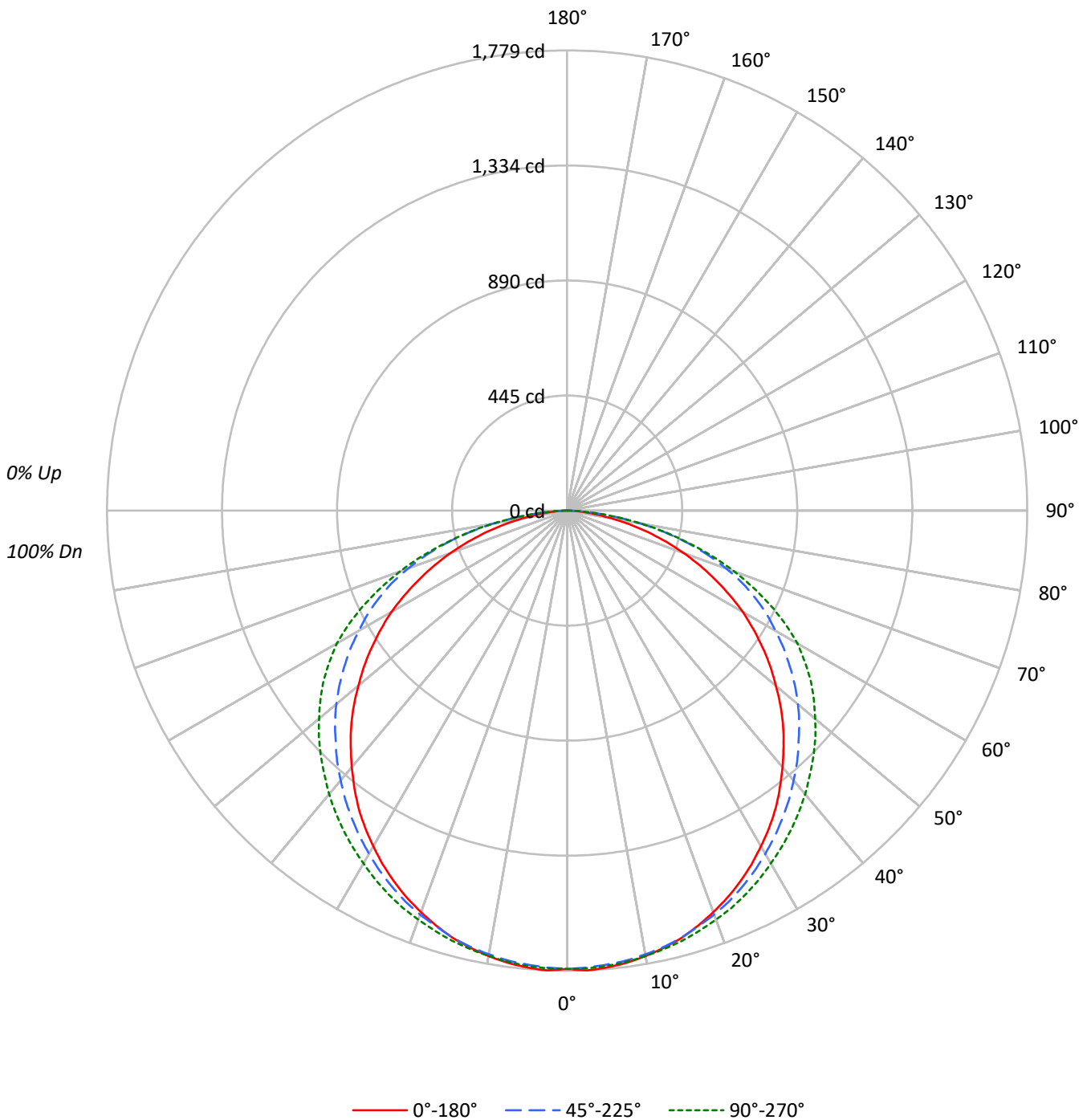
Lumens per Lamp: N/A
Luminaire Lumens: 5567.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2384	2384	2384
5°	2395	2380	2387
10°	2389	2380	2389
15°	2382	2380	2398
20°	2365	2379	2410
25°	2349	2381	2428
30°	2328	2380	2447
35°	2309	2384	2477
40°	2275	2392	2514
45°	2248	2408	2561
50°	2206	2439	2620
55°	2164	2466	2699
60°	2113	2503	2766
65°	2011	2559	2763
70°	1885	2572	2704
75°	1686	2498	2530
80°	1353	2235	2245
85°	956	1626	1530



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	3.0
10°-20°	482.8	8.7
20°-30°	739.8	13.3
30°-40°	909.3	16.3
40°-50°	975.3	17.5
50°-60°	932.7	16.8
60°-70°	767.2	13.8
70°-80°	471.8	8.5
80°-90°	120.4	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°	1390.3	25.0
0°-40°	2299.6	41.3
0°-60°	4207.6	75.6
0°-90°	5567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1772	1772	1772	1772	1772	
5°	1773	1766	1762	1760	1767	168
15°	1710	1704	1709	1711	1721	482
25°	1582	1582	1604	1621	1636	729
35°	1406	1414	1451	1488	1508	878
45°	1181	1204	1266	1321	1346	910
55°	922	967	1051	1122	1150	824
65°	632	702	804	852	868	625
75°	324	421	480	489	487	343
85°	62	102	105	102	99	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1772.0	1772.0	1772.0	1772.0	1772.0
2.5°	1779.4	1770.8	1768.3	1764.6	1770.8
5°	1773.2	1765.8	1762.1	1759.6	1767.1
7.5°	1763.3	1755.9	1754.7	1752.2	1759.6
10°	1748.5	1742.3	1742.3	1741.0	1748.5
12.5°	1731.1	1723.7	1727.4	1728.7	1736.1
15°	1710.1	1703.9	1708.9	1711.3	1721.2
17.5°	1682.8	1677.9	1685.3	1692.8	1702.7
20°	1651.9	1650.7	1661.8	1671.7	1682.8
22.5°	1619.7	1619.7	1635.8	1646.9	1661.8
25°	1582.5	1582.5	1603.6	1620.9	1635.8
27.5°	1542.9	1545.4	1570.2	1591.2	1607.3
30°	1498.3	1505.8	1531.8	1557.8	1575.1
32.5°	1453.8	1460.0	1493.4	1526.8	1542.9
35°	1405.5	1414.1	1451.3	1488.4	1508.2
37.5°	1351.0	1363.4	1409.2	1450.0	1471.1
40°	1295.3	1311.4	1362.1	1409.2	1431.5
42.5°	1238.3	1260.6	1316.3	1364.6	1388.1
45°	1181.3	1203.6	1265.5	1321.3	1346.0
47.5°	1119.4	1146.7	1217.2	1274.2	1301.5
50°	1053.8	1086.0	1165.2	1224.7	1251.9
52.5°	989.4	1026.5	1109.5	1176.4	1202.4
55°	922.5	967.1	1051.3	1121.9	1150.4
57.5°	853.2	904.0	993.1	1064.9	1089.7
60°	785.1	835.9	930.0	1003.0	1027.8
62.5°	708.3	770.2	870.5	938.6	952.3
65°	631.5	702.1	803.7	851.9	868.0
67.5°	556.0	632.8	734.3	769.0	778.9
70°	479.2	558.5	653.8	682.3	687.3
72.5°	401.2	490.4	570.9	587.0	589.4
75°	324.4	421.0	480.5	489.1	486.7
77.5°	248.9	344.2	386.3	390.1	391.3
80°	174.6	263.8	288.5	289.8	289.8
82.5°	112.7	183.3	195.7	193.2	195.7
85°	61.9	101.5	105.3	101.5	99.1
87.5°	19.8	29.7	32.2	31.0	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)