

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: P225637

Luminaire Tested: **24AC-LD5-63-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: P225637
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-LD5-63-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: 6069.0 lumens
Efficiency: N/A
Efficacy: 105.0 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

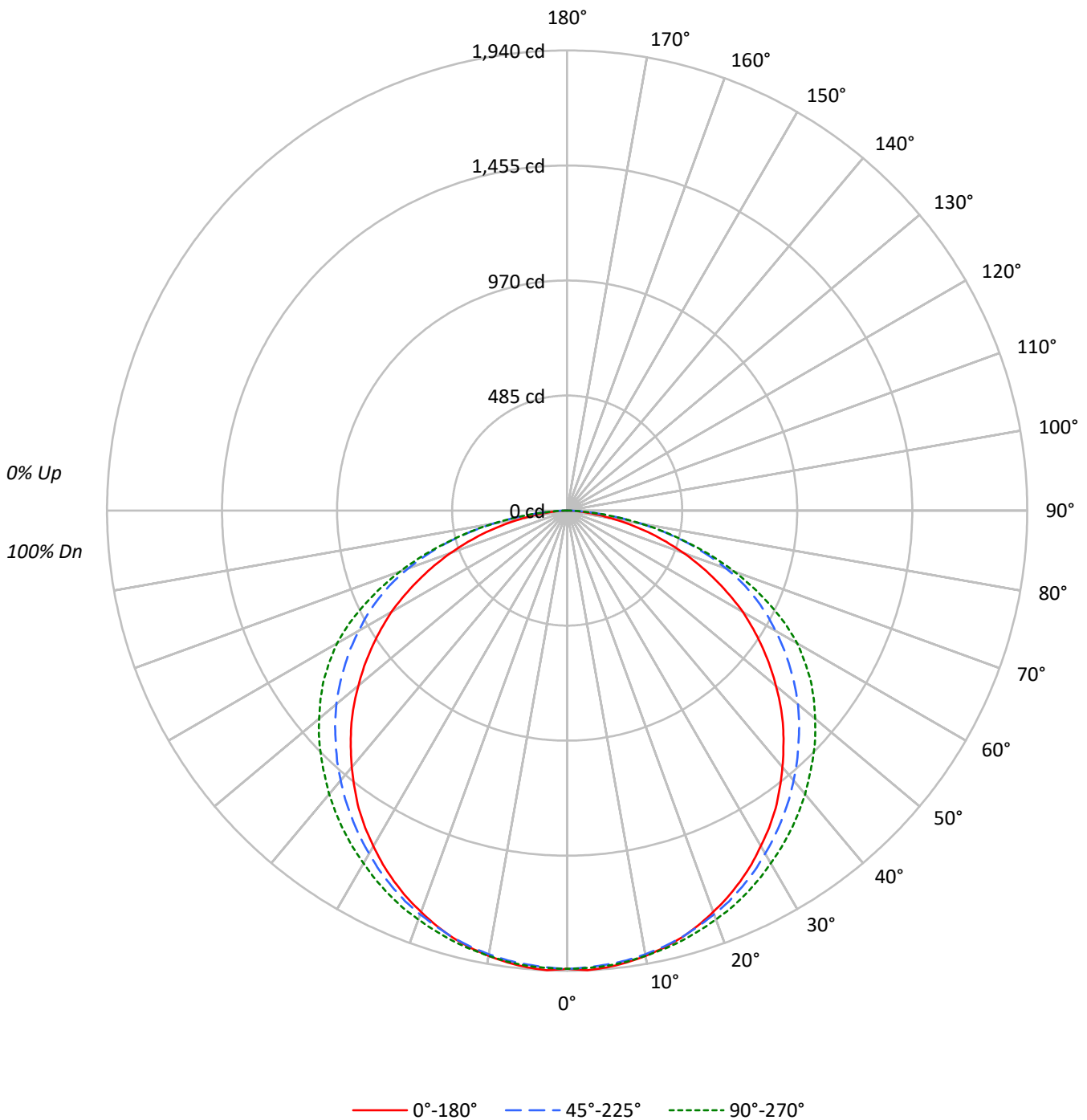
Input Watts (W): 57.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225637

CATALOG NUMBER: 24AC-LD5-63-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225637

CATALOG NUMBER: 24AC-LD5-63-UNV-L830-CD1-U

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°	2599	2599	2599
5°	2611	2595	2602
10°	2604	2595	2604
15°	2597	2595	2614
20°	2578	2594	2627
25°	2561	2595	2647
30°	2538	2594	2668
35°	2517	2599	2701
40°	2480	2608	2741
45°	2451	2625	2792
50°	2405	2659	2857
55°	2359	2689	2942
60°	2303	2728	3015
65°	2192	2789	3013
70°	2055	2804	2947
75°	1839	2723	2758
80°	1475	2437	2448
85°	1042	1771	1667



TEST NUMBER: P225637

CATALOG NUMBER: 24AC-LD5-63-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	3.0
10°-20°	526.3	8.7
20°-30°	806.5	13.3
30°-40°	991.3	16.3
40°-50°	1063.3	17.5
50°-60°	1016.8	16.8
60°-70°	836.4	13.8
70°-80°	514.4	8.5
80°-90°	131.2	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°	1515.7	25.0
0°-40°	2506.9	41.3
0°-60°	4587.1	75.6
0°-90°	6069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1932	1932	1932	1932	1932	
5°	1933	1925	1921	1918	1926	184
15°	1864	1858	1863	1866	1876	526
25°	1725	1725	1748	1767	1783	795
35°	1532	1542	1582	1623	1644	957
45°	1288	1312	1380	1440	1467	992
55°	1006	1054	1146	1223	1254	898
65°	688	765	876	929	946	682
75°	354	459	524	533	530	374
85°	68	111	115	111	108	83
90°	0	0	0	0	0	



TEST NUMBER: P225637

CATALOG NUMBER: 24AC-LD5-63-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1931.8	1931.8	1931.8	1931.8	1931.8
2.5°	1939.9	1930.4	1927.7	1923.7	1930.4
5°	1933.1	1925.0	1921.0	1918.3	1926.4
7.5°	1922.3	1914.2	1912.9	1910.2	1918.3
10°	1906.1	1899.4	1899.4	1898.0	1906.1
12.5°	1887.2	1879.1	1883.2	1884.5	1892.6
15°	1864.3	1857.5	1862.9	1865.6	1876.4
17.5°	1834.6	1829.2	1837.3	1845.4	1856.2
20°	1800.8	1799.5	1811.6	1822.4	1834.6
22.5°	1765.7	1765.7	1783.3	1795.4	1811.6
25°	1725.3	1725.3	1748.2	1767.1	1783.3
27.5°	1682.1	1684.8	1711.8	1734.7	1752.2
30°	1633.5	1641.6	1669.9	1698.3	1717.2
32.5°	1584.9	1591.6	1628.1	1664.5	1682.1
35°	1532.2	1541.7	1582.2	1622.7	1644.3
37.5°	1472.8	1486.3	1536.3	1580.8	1603.8
40°	1412.1	1429.6	1485.0	1536.3	1560.6
42.5°	1350.0	1374.3	1435.0	1487.7	1513.3
45°	1287.9	1312.2	1379.7	1440.4	1467.4
47.5°	1220.4	1250.1	1327.0	1389.1	1418.8
50°	1148.8	1183.9	1270.3	1335.1	1364.8
52.5°	1078.6	1119.1	1209.6	1282.5	1310.8
55°	1005.7	1054.3	1146.1	1223.1	1254.1
57.5°	930.1	985.5	1082.7	1161.0	1188.0
60°	855.9	911.2	1013.8	1093.5	1120.5
62.5°	772.2	839.7	949.0	1023.3	1038.1
65°	688.5	765.4	876.1	928.8	946.3
67.5°	606.1	689.8	800.5	838.3	849.1
70°	522.4	608.8	712.8	743.8	749.2
72.5°	437.4	534.6	622.3	639.9	642.6
75°	353.7	459.0	523.8	533.2	530.5
77.5°	271.3	375.3	421.2	425.2	426.6
80°	190.3	287.5	314.5	315.9	315.9
82.5°	122.8	199.8	213.3	210.6	213.3
85°	67.5	110.7	114.7	110.7	108.0
87.5°	21.6	32.4	35.1	33.7	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)