

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: P225666

Luminaire Tested: **24AC-LD5-73-RDP-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: P225666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35755)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24AC-LD5-73-RDP-UNV-L830-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH RDP LENS
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: 5987.4 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

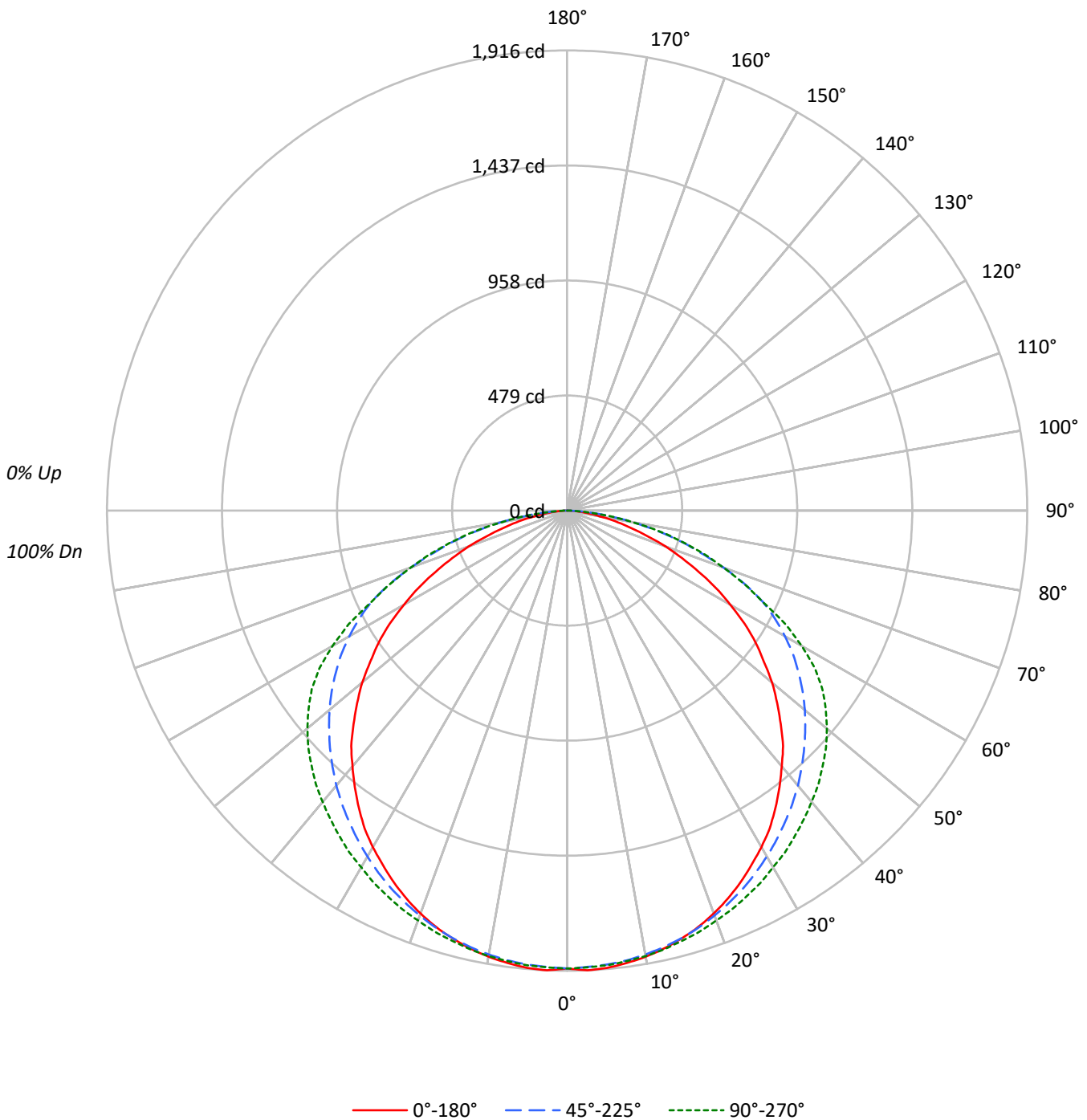
Input Watts (W): 71
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	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	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	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	30	25	36	29	24	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2565	2565	2565
5°	2581	2562	2567
10°	2577	2564	2573
15°	2569	2567	2582
20°	2556	2569	2600
25°	2536	2576	2629
30°	2514	2584	2664
35°	2483	2599	2716
40°	2442	2625	2781
45°	2393	2657	2862
50°	2332	2704	2956
55°	2247	2760	3045
60°	2112	2817	3035
65°	1927	2861	2856
70°	1712	2719	2719
75°	1395	2506	2538
80°	1076	2164	2128
85°	747	1422	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	3.0
10°-20°	520.9	8.7
20°-30°	800.8	13.4
30°-40°	990.7	16.5
40°-50°	1072.6	17.9
50°-60°	1028.7	17.2
60°-70°	816.5	13.6
70°-80°	468.9	7.8
80°-90°	107.7	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°	1502.3	25.1
0°-40°	2493.0	41.6
0°-60°	4594.2	76.7
0°-90°	5987.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5987.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1907	1907	1907	1907	1907	
5°	1911	1902	1897	1894	1900	182
15°	1844	1840	1843	1846	1854	520
25°	1708	1713	1735	1757	1771	787
35°	1512	1532	1582	1630	1654	945
45°	1258	1306	1396	1474	1504	970
55°	958	1042	1176	1265	1298	853
65°	605	749	899	911	897	601
75°	268	432	482	487	488	291
85°	48	84	92	87	86	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1906.6	1906.6	1906.6	1906.6	1906.6
2.5°	1916.0	1906.6	1901.9	1898.8	1903.5
5°	1911.3	1901.9	1897.2	1894.1	1900.3
7.5°	1900.3	1892.5	1889.4	1887.9	1892.5
10°	1886.3	1878.5	1876.9	1875.4	1883.2
12.5°	1867.6	1861.3	1861.3	1861.3	1870.7
15°	1844.2	1839.5	1842.6	1845.7	1853.5
17.5°	1817.7	1813.0	1820.8	1827.0	1837.9
20°	1784.9	1784.9	1794.3	1803.6	1816.1
22.5°	1749.0	1752.1	1766.2	1781.8	1795.8
25°	1708.4	1713.1	1735.0	1756.8	1770.9
27.5°	1663.2	1672.6	1700.6	1728.7	1745.9
30°	1617.9	1627.3	1663.2	1697.5	1714.7
32.5°	1569.6	1580.5	1624.2	1664.8	1688.2
35°	1511.9	1532.1	1582.1	1630.4	1653.8
37.5°	1452.6	1480.6	1539.9	1594.5	1619.5
40°	1390.2	1424.5	1494.7	1557.1	1583.6
42.5°	1330.9	1366.8	1446.3	1516.5	1547.7
45°	1257.5	1305.9	1396.4	1474.4	1504.1
47.5°	1185.8	1243.5	1344.9	1427.6	1461.9
50°	1114.0	1178.0	1291.9	1382.4	1412.0
52.5°	1032.9	1110.9	1235.7	1326.2	1357.4
55°	958.0	1042.2	1176.4	1265.3	1298.1
57.5°	875.3	970.5	1115.6	1202.9	1223.2
60°	784.8	897.1	1046.9	1121.8	1128.0
62.5°	699.0	825.4	976.7	1023.5	1025.1
65°	605.4	748.9	898.7	911.2	897.1
67.5°	518.0	667.8	802.0	792.6	797.3
70°	435.3	591.3	691.2	695.9	691.2
72.5°	344.8	511.8	582.0	592.9	594.4
75°	268.4	432.2	482.1	486.8	488.3
77.5°	204.4	346.4	376.0	383.8	388.5
80°	138.9	241.8	279.3	282.4	274.6
82.5°	90.5	156.0	177.9	177.9	176.3
85°	48.4	84.3	92.1	87.4	85.8
87.5°	17.2	25.0	28.1	28.1	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)