

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: P225693

Luminaire Tested: **24AC-LD5-73-SQP-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: P225693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35754)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24AC-LD5-73-SQP-UNV-L830-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH SQP 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: 5698.8 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.45
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

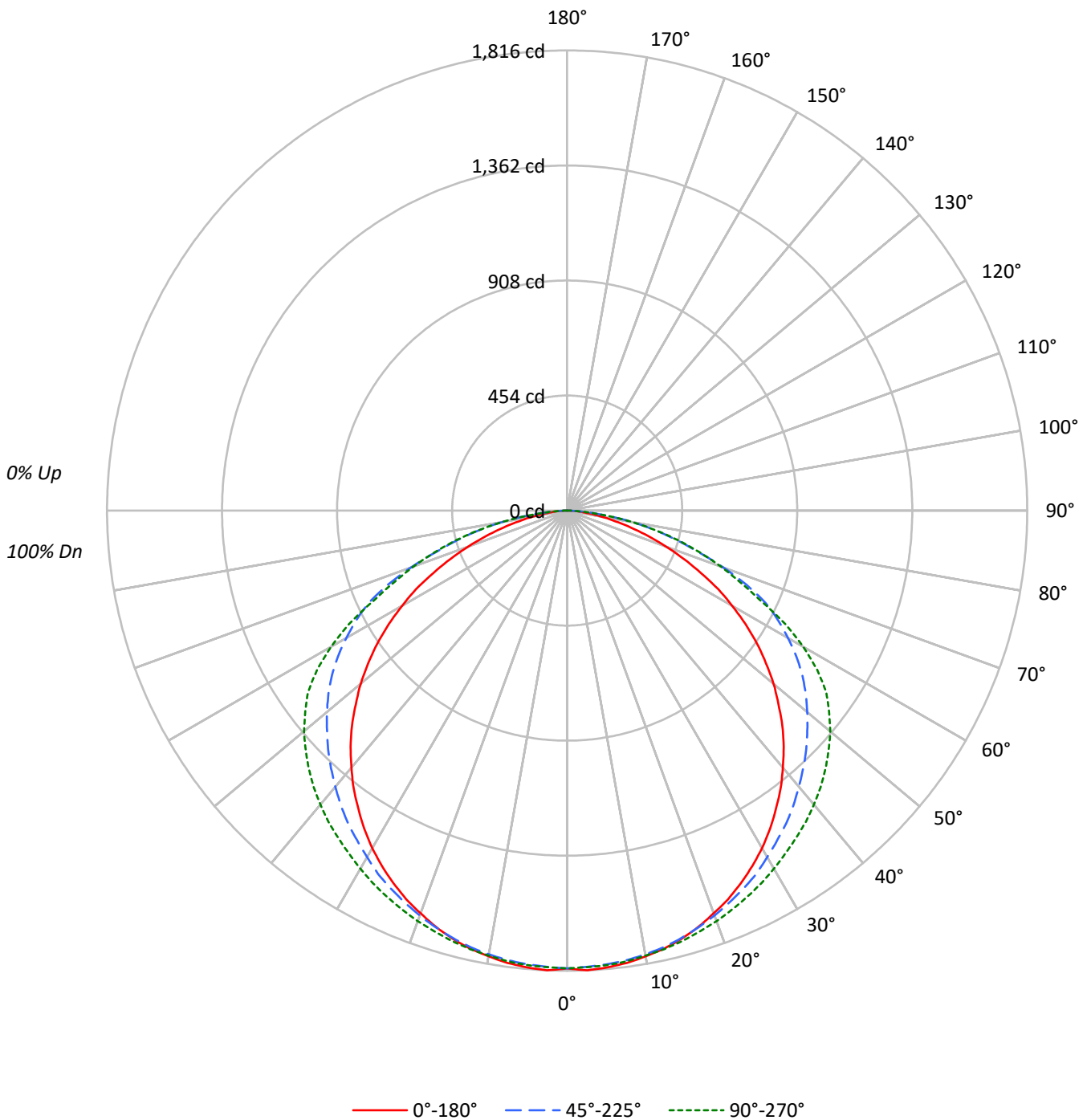
Input Watts (W): 71
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	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	50	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	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	29	25	36	29	24	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2431	2431	2431
5°	2444	2427	2432
10°	2441	2430	2436
15°	2436	2432	2449
20°	2422	2435	2468
25°	2409	2444	2497
30°	2390	2453	2536
35°	2360	2475	2588
40°	2327	2499	2661
45°	2286	2538	2743
50°	2227	2590	2838
55°	2145	2657	2928
60°	2024	2708	2897
65°	1853	2757	2687
70°	1633	2584	2535
75°	1363	2320	2368
80°	1076	2019	2007
85°	770	1277	1252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	3.0
10°-20°	493.7	8.7
20°-30°	759.9	13.3
30°-40°	942.6	16.5
40°-50°	1024.1	18.0
50°-60°	986.6	17.3
60°-70°	778.4	13.7
70°-80°	441.3	7.7
80°-90°	101.2	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°	1424.7	25.0
0°-40°	2367.3	41.5
0°-60°	4377.9	76.8
0°-90°	5698.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5698.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1807	1807	1807	1807	1807	
5°	1810	1802	1797	1794	1800	172
15°	1749	1744	1746	1749	1758	493
25°	1623	1624	1646	1666	1682	748
35°	1437	1456	1507	1552	1576	899
45°	1201	1242	1334	1410	1442	925
55°	914	998	1133	1217	1248	815
65°	582	721	866	856	844	577
75°	262	417	446	452	456	282
85°	50	81	83	83	81	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1806.7	1806.7	1806.7	1806.7	1806.7
2.5°	1816.1	1806.7	1802.0	1798.9	1803.6
5°	1809.8	1802.0	1797.3	1794.2	1800.5
7.5°	1800.5	1792.7	1789.5	1786.4	1794.2
10°	1786.4	1780.2	1778.6	1777.1	1783.3
12.5°	1770.8	1764.6	1764.6	1766.1	1772.4
15°	1749.0	1744.3	1745.9	1749.0	1758.3
17.5°	1722.5	1717.8	1724.0	1730.3	1741.2
20°	1691.2	1691.2	1700.6	1710.0	1724.0
22.5°	1660.0	1660.0	1674.1	1689.7	1703.7
25°	1622.6	1624.2	1646.0	1666.3	1681.9
27.5°	1582.0	1586.7	1616.4	1639.8	1658.5
30°	1538.3	1546.2	1578.9	1613.2	1632.0
32.5°	1490.0	1500.9	1543.0	1585.2	1603.9
35°	1436.9	1455.7	1507.1	1552.4	1575.8
37.5°	1383.9	1404.2	1466.6	1519.6	1547.7
40°	1324.6	1355.8	1422.9	1485.3	1514.9
42.5°	1265.3	1298.1	1379.2	1449.4	1480.6
45°	1201.3	1241.9	1334.0	1410.4	1441.6
47.5°	1131.1	1184.2	1285.6	1368.3	1399.5
50°	1064.1	1124.9	1237.2	1323.0	1355.8
52.5°	989.2	1060.9	1187.3	1274.7	1302.8
55°	914.3	998.5	1132.7	1217.0	1248.2
57.5°	834.7	929.9	1073.4	1151.4	1170.1
60°	752.0	864.3	1006.3	1076.5	1076.5
62.5°	672.4	792.6	939.2	968.9	972.0
65°	582.0	720.8	865.9	856.5	844.1
67.5°	497.7	650.6	766.1	738.0	739.5
70°	415.0	574.2	656.8	641.2	644.4
72.5°	335.4	494.6	541.4	547.6	547.6
75°	262.1	416.6	446.2	452.5	455.6
77.5°	195.0	333.9	354.2	358.8	355.7
80°	138.9	227.8	260.6	257.4	259.0
82.5°	87.4	146.7	165.4	168.5	163.8
85°	49.9	81.1	82.7	82.7	81.1
87.5°	17.2	25.0	26.5	25.0	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)