

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: P225691

Luminaire Tested: **24AC-LD5-63-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: P225691
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-LD5-63-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: 4931.4 lumens
Efficiency: N/A
Efficacy: 85.3 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

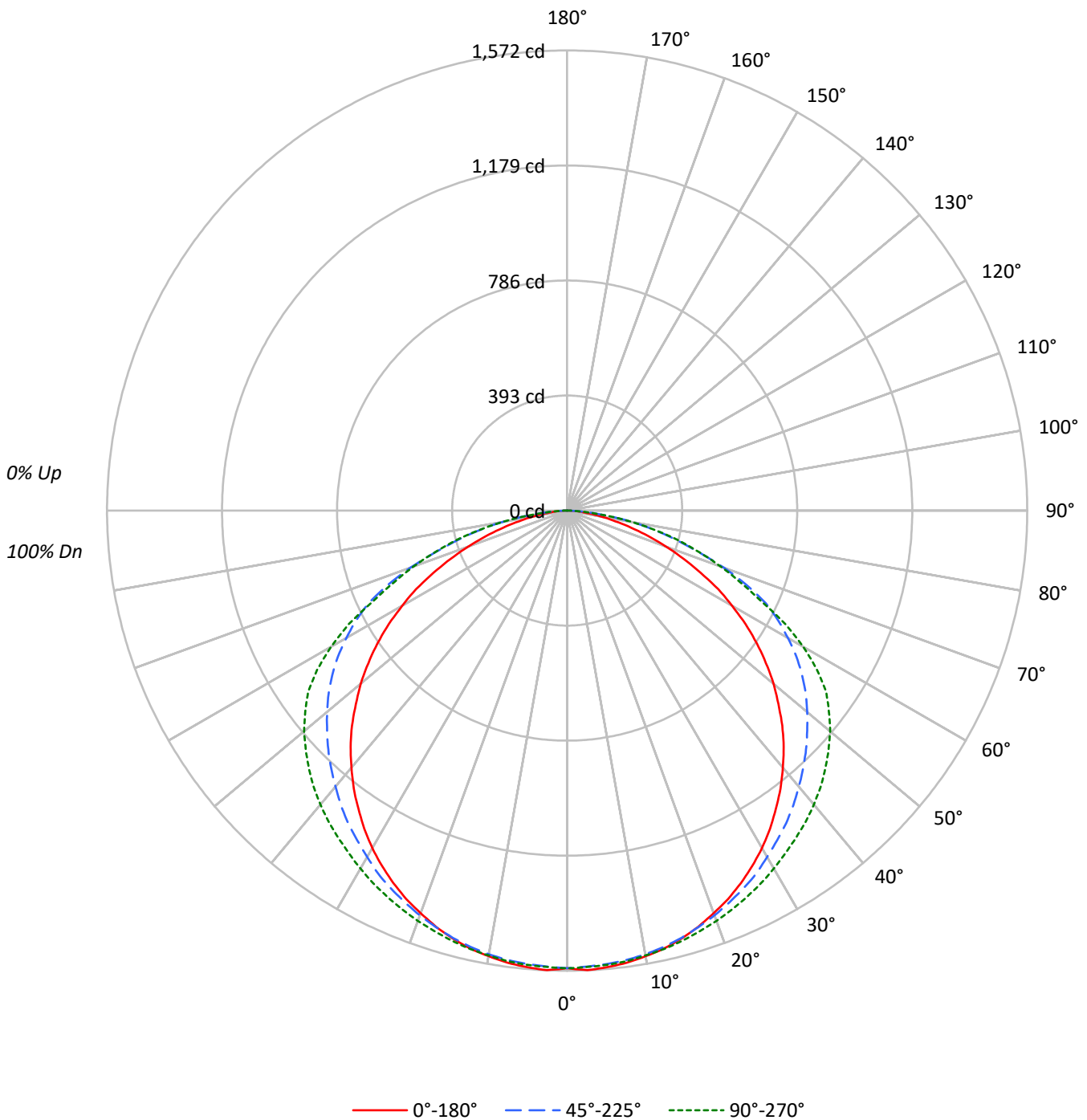
Input Watts (W): 57.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2104	2104	2104
5°	2115	2101	2104
10°	2112	2103	2108
15°	2108	2104	2119
20°	2095	2107	2136
25°	2085	2114	2161
30°	2068	2123	2194
35°	2042	2142	2240
40°	2013	2163	2302
45°	1978	2196	2374
50°	1927	2241	2456
55°	1856	2299	2534
60°	1751	2343	2507
65°	1603	2386	2325
70°	1413	2236	2194
75°	1179	2007	2049
80°	931	1747	1736
85°	667	1105	1084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	3.0
10°-20°	427.2	8.7
20°-30°	657.5	13.3
30°-40°	815.7	16.5
40°-50°	886.2	18.0
50°-60°	853.7	17.3
60°-70°	673.6	13.7
70°-80°	381.8	7.7
80°-90°	87.6	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°	1232.8	25.0
0°-40°	2048.5	41.5
0°-60°	3788.4	76.8
0°-90°	4931.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4931.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1566	1559	1555	1553	1558	149
15°	1513	1509	1511	1513	1522	427
25°	1404	1405	1424	1442	1455	647
35°	1243	1260	1304	1343	1364	778
45°	1040	1075	1154	1220	1248	800
55°	791	864	980	1053	1080	705
65°	504	624	749	741	730	500
75°	227	360	386	392	394	244
85°	43	70	72	72	70	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1571.5	1563.4	1559.3	1556.6	1560.7
5°	1566.1	1559.3	1555.3	1552.6	1558.0
7.5°	1558.0	1551.2	1548.5	1545.8	1552.6
10°	1545.8	1540.4	1539.1	1537.7	1543.1
12.5°	1532.3	1526.9	1526.9	1528.3	1533.7
15°	1513.4	1509.4	1510.7	1513.4	1521.5
17.5°	1490.5	1486.4	1491.8	1497.2	1506.7
20°	1463.5	1463.5	1471.6	1479.7	1491.8
22.5°	1436.5	1436.5	1448.6	1462.1	1474.3
25°	1404.1	1405.4	1424.3	1441.9	1455.4
27.5°	1369.0	1373.0	1398.7	1418.9	1435.1
30°	1331.2	1337.9	1366.3	1396.0	1412.2
32.5°	1289.3	1298.8	1335.2	1371.7	1387.9
35°	1243.4	1259.6	1304.2	1343.3	1363.6
37.5°	1197.5	1215.1	1269.1	1315.0	1339.3
40°	1146.2	1173.2	1231.3	1285.3	1310.9
42.5°	1094.9	1123.3	1193.5	1254.2	1281.2
45°	1039.6	1074.7	1154.3	1220.5	1247.5
47.5°	978.8	1024.7	1112.5	1184.0	1211.0
50°	920.8	973.4	1070.6	1144.9	1173.2
52.5°	856.0	918.1	1027.4	1103.0	1127.3
55°	791.1	864.1	980.2	1053.1	1080.1
57.5°	722.3	804.7	928.9	996.4	1012.6
60°	650.7	747.9	870.8	931.6	931.6
62.5°	581.9	685.8	812.8	838.4	841.1
65°	503.6	623.7	749.3	741.2	730.4
67.5°	430.7	563.0	662.9	638.6	639.9
70°	359.1	496.8	568.4	554.9	557.6
72.5°	290.3	428.0	468.5	473.9	473.9
75°	226.8	360.5	386.1	391.5	394.2
77.5°	168.8	288.9	306.5	310.5	307.8
80°	120.2	197.1	225.5	222.8	224.1
82.5°	75.6	126.9	143.1	145.8	141.8
85°	43.2	70.2	71.6	71.6	70.2
87.5°	14.9	21.6	23.0	21.6	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)