

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: P225708

Luminaire Tested: **24AC-LD5-55-SQP-UNV-L840-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: P225708
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-LD5-55-SQP-UNV-L840-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH SQP LENS
Light Source: (168)4000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4613.6 lumens
Efficiency: N/A
Efficacy: 93.9 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

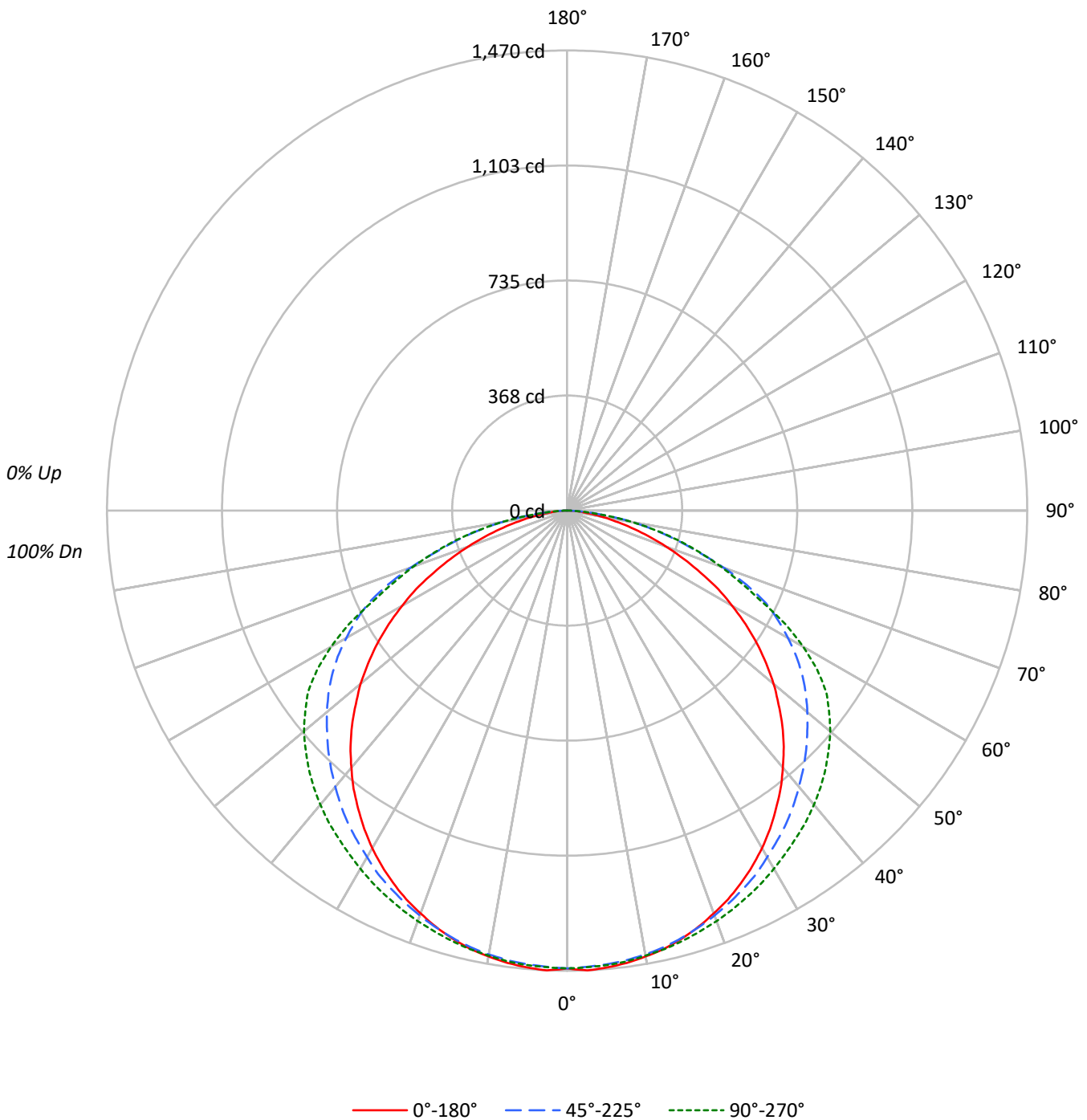
Input Watts (W): 49.15
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1968	1968	1968
5°	1979	1965	1969
10°	1976	1967	1972
15°	1972	1969	1983
20°	1960	1971	1998
25°	1950	1978	2021
30°	1935	1986	2053
35°	1911	2004	2095
40°	1884	2023	2154
45°	1851	2055	2221
50°	1803	2097	2298
55°	1736	2151	2370
60°	1638	2192	2345
65°	1500	2232	2175
70°	1322	2092	2052
75°	1103	1878	1917
80°	871	1634	1625
85°	624	1033	1014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	3.0
10°-20°	399.7	8.7
20°-30°	615.2	13.3
30°-40°	763.1	16.5
40°-50°	829.1	18.0
50°-60°	798.7	17.3
60°-70°	630.2	13.7
70°-80°	357.2	7.7
80°-90°	81.9	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°	1153.4	25.0
0°-40°	1916.5	41.5
0°-60°	3544.3	76.8
0°-90°	4613.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4613.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1465	1459	1455	1453	1458	139
15°	1416	1412	1413	1416	1424	399
25°	1314	1315	1333	1349	1362	605
35°	1163	1178	1220	1257	1276	728
45°	973	1005	1080	1142	1167	749
55°	740	808	917	985	1010	660
65°	471	584	701	693	683	467
75°	212	337	361	366	369	228
85°	40	66	67	67	66	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.7	1462.7	1462.7	1462.7	1462.7
2.5°	1470.3	1462.7	1458.9	1456.4	1460.2
5°	1465.2	1458.9	1455.1	1452.6	1457.6
7.5°	1457.6	1451.3	1448.8	1446.3	1452.6
10°	1446.3	1441.2	1439.9	1438.7	1443.7
12.5°	1433.6	1428.6	1428.6	1429.8	1434.9
15°	1415.9	1412.2	1413.4	1415.9	1423.5
17.5°	1394.5	1390.7	1395.7	1400.8	1409.6
20°	1369.2	1369.2	1376.8	1384.4	1395.7
22.5°	1344.0	1344.0	1355.3	1367.9	1379.3
25°	1313.6	1314.9	1332.6	1349.0	1361.6
27.5°	1280.8	1284.6	1308.6	1327.5	1342.7
30°	1245.4	1251.7	1278.3	1306.1	1321.2
32.5°	1206.3	1215.1	1249.2	1283.3	1298.5
35°	1163.3	1178.5	1220.2	1256.8	1275.7
37.5°	1120.4	1136.8	1187.3	1230.3	1253.0
40°	1072.4	1097.6	1152.0	1202.5	1226.5
42.5°	1024.4	1050.9	1116.6	1173.4	1198.7
45°	972.6	1005.4	1080.0	1141.9	1167.1
47.5°	915.8	958.7	1040.8	1107.7	1133.0
50°	861.4	910.7	1001.6	1071.1	1097.6
52.5°	800.8	858.9	961.2	1032.0	1054.7
55°	740.2	808.4	917.0	985.2	1010.5
57.5°	675.8	752.8	869.0	932.2	947.3
60°	608.8	699.8	814.7	871.5	871.5
62.5°	544.4	641.7	760.4	784.4	786.9
65°	471.1	583.6	701.0	693.4	683.3
67.5°	402.9	526.7	620.2	597.5	598.7
70°	336.0	464.8	531.8	519.1	521.7
72.5°	271.6	400.4	438.3	443.4	443.4
75°	212.2	337.3	361.2	366.3	368.8
77.5°	157.9	270.3	286.7	290.5	288.0
80°	112.4	184.4	210.9	208.4	209.7
82.5°	70.7	118.7	133.9	136.4	132.6
85°	40.4	65.7	66.9	66.9	65.7
87.5°	13.9	20.2	21.5	20.2	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)