

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: P225681

Luminaire Tested: **24AC-LD5-55-RDP-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: P225681
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-LD5-55-RDP-UNV-L840-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH RDP 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: 4847.3 lumens
Efficiency: N/A
Efficacy: 98.6 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

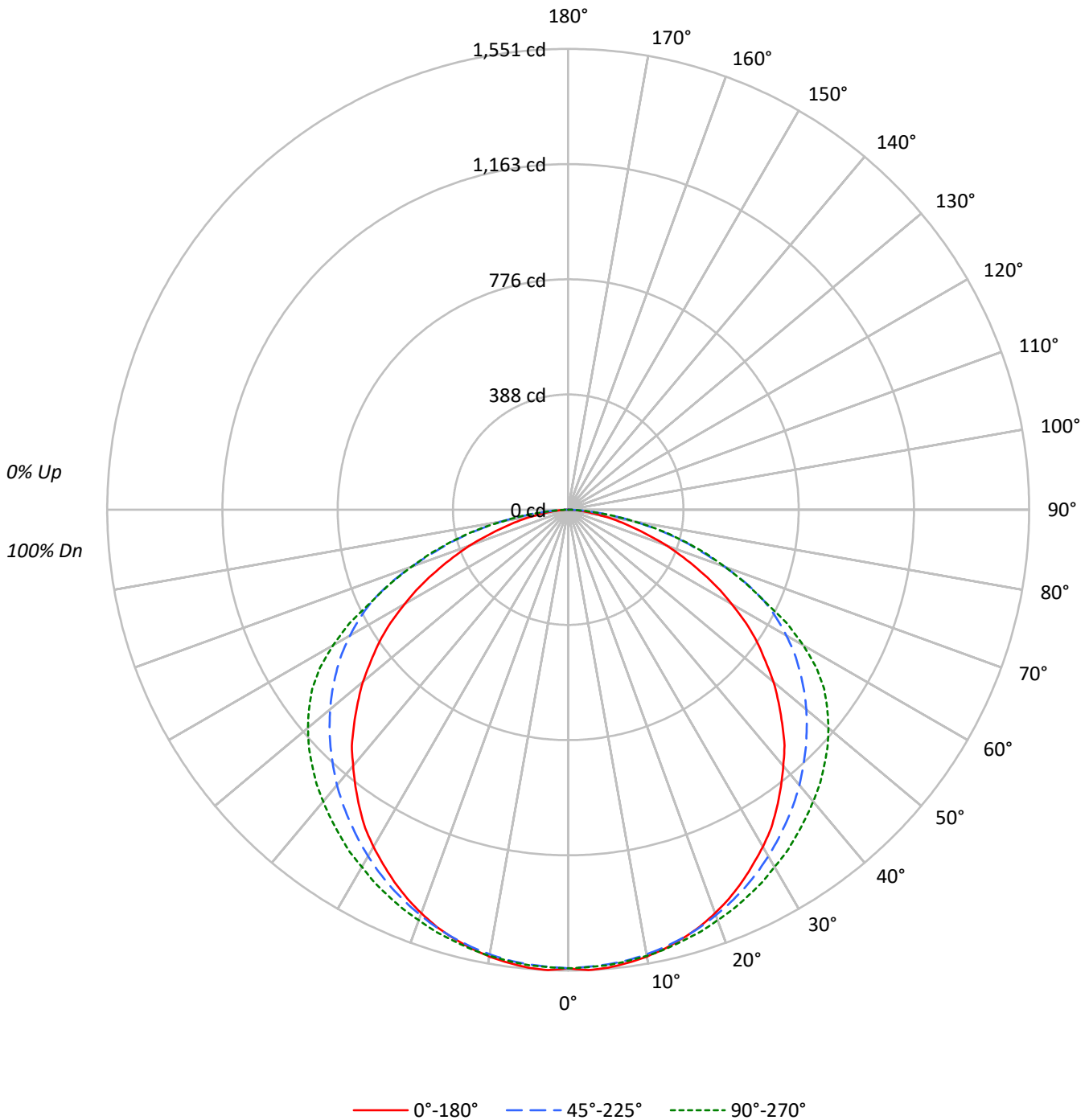
Input Watts (W): 49.15
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2077	2077	2077
5°	2090	2075	2078
10°	2086	2076	2083
15°	2080	2078	2090
20°	2069	2080	2105
25°	2053	2085	2128
30°	2035	2092	2157
35°	2010	2104	2199
40°	1977	2125	2252
45°	1937	2151	2317
50°	1888	2189	2393
55°	1819	2234	2465
60°	1710	2281	2457
65°	1560	2316	2312
70°	1386	2201	2201
75°	1130	2029	2056
80°	871	1752	1722
85°	605	1150	1073



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	3.0
10°-20°	421.7	8.7
20°-30°	648.3	13.4
30°-40°	802.0	16.5
40°-50°	868.3	17.9
50°-60°	832.8	17.2
60°-70°	661.0	13.6
70°-80°	379.6	7.8
80°-90°	87.2	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°	1216.3	25.1
0°-40°	2018.3	41.6
0°-60°	3719.4	76.7
0°-90°	4847.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4847.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1547	1540	1536	1533	1538	147
15°	1493	1489	1492	1494	1501	421
25°	1383	1387	1405	1422	1434	637
35°	1224	1240	1281	1320	1339	765
45°	1018	1057	1130	1194	1218	785
55°	776	844	952	1024	1051	691
65°	490	606	728	738	726	487
75°	217	350	390	394	395	236
85°	39	68	74	71	70	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1543.5	1543.5	1543.5	1543.5	1543.5
2.5°	1551.1	1543.5	1539.8	1537.2	1541.0
5°	1547.3	1539.8	1536.0	1533.4	1538.5
7.5°	1538.5	1532.2	1529.7	1528.4	1532.2
10°	1527.1	1520.8	1519.6	1518.3	1524.6
12.5°	1512.0	1506.9	1506.9	1506.9	1514.5
15°	1493.0	1489.2	1491.8	1494.3	1500.6
17.5°	1471.6	1467.8	1474.1	1479.1	1488.0
20°	1445.0	1445.0	1452.6	1460.2	1470.3
22.5°	1416.0	1418.5	1429.9	1442.5	1453.9
25°	1383.1	1386.9	1404.6	1422.3	1433.7
27.5°	1346.5	1354.1	1376.8	1399.6	1413.4
30°	1309.9	1317.4	1346.5	1374.3	1388.2
32.5°	1270.7	1279.6	1314.9	1347.8	1366.7
35°	1224.0	1240.4	1280.8	1320.0	1338.9
37.5°	1176.0	1198.7	1246.7	1290.9	1311.1
40°	1125.5	1153.2	1210.1	1260.6	1282.1
42.5°	1077.5	1106.5	1170.9	1227.8	1253.0
45°	1018.1	1057.2	1130.5	1193.7	1217.7
47.5°	960.0	1006.7	1088.8	1155.8	1183.6
50°	901.9	953.7	1045.9	1119.1	1143.1
52.5°	836.2	899.4	1000.4	1073.7	1098.9
55°	775.6	843.8	952.4	1024.4	1050.9
57.5°	708.6	785.7	903.1	973.9	990.3
60°	635.4	726.3	847.6	908.2	913.2
62.5°	565.9	668.2	790.7	828.6	829.9
65°	490.1	606.3	727.6	737.7	726.3
67.5°	419.4	540.6	649.3	641.7	645.5
70°	352.4	478.7	559.6	563.4	559.6
72.5°	279.2	414.3	471.1	480.0	481.3
75°	217.3	349.9	390.3	394.1	395.4
77.5°	165.5	280.4	304.4	310.7	314.5
80°	112.4	195.8	226.1	228.6	222.3
82.5°	73.3	126.3	144.0	144.0	142.7
85°	39.2	68.2	74.5	70.7	69.5
87.5°	13.9	20.2	22.7	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)