

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: P225680

Luminaire Tested: **24AC-LD5-48-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: P225680
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-LD5-48-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: 4259.6 lumens
Efficiency: N/A
Efficacy: 101.7 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

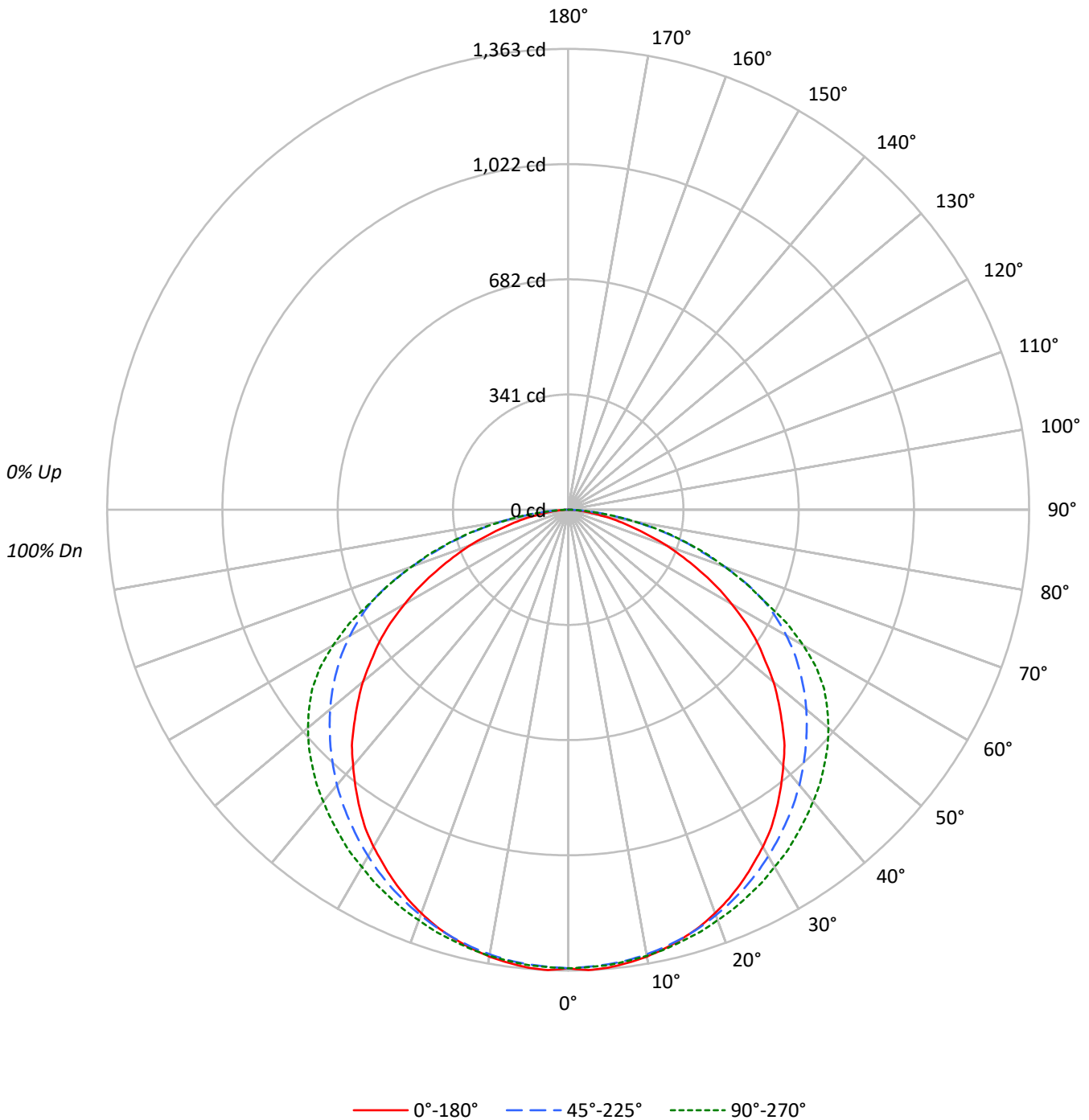
Input Watts (W): 41.88
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1825	1825	1825
5°	1836	1823	1826
10°	1834	1824	1830
15°	1828	1826	1837
20°	1818	1828	1850
25°	1804	1832	1870
30°	1788	1838	1895
35°	1767	1849	1933
40°	1737	1868	1979
45°	1702	1890	2036
50°	1659	1924	2103
55°	1599	1963	2166
60°	1502	2004	2160
65°	1371	2035	2032
70°	1218	1934	1934
75°	992	1783	1806
80°	766	1540	1514
85°	531	1011	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	3.0
10°-20°	370.6	8.7
20°-30°	569.7	13.4
30°-40°	704.8	16.5
40°-50°	763.0	17.9
50°-60°	731.8	17.2
60°-70°	580.9	13.6
70°-80°	333.6	7.8
80°-90°	76.6	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°	1068.8	25.1
0°-40°	1773.6	41.6
0°-60°	3268.4	76.7
0°-90°	4259.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4259.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1360	1353	1350	1348	1352	129
15°	1312	1309	1311	1313	1319	370
25°	1215	1219	1234	1250	1260	560
35°	1076	1090	1126	1160	1177	673
45°	895	929	993	1049	1070	690
55°	682	742	837	900	924	607
65°	431	533	639	648	638	428
75°	191	308	343	346	347	207
85°	34	60	66	62	61	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.4	1356.4	1356.4	1356.4	1356.4
2.5°	1363.1	1356.4	1353.1	1350.8	1354.2
5°	1359.7	1353.1	1349.7	1347.5	1352.0
7.5°	1352.0	1346.4	1344.2	1343.1	1346.4
10°	1342.0	1336.4	1335.3	1334.2	1339.7
12.5°	1328.6	1324.2	1324.2	1324.2	1330.9
15°	1312.0	1308.7	1310.9	1313.1	1318.7
17.5°	1293.1	1289.8	1295.3	1299.8	1307.6
20°	1269.8	1269.8	1276.5	1283.1	1292.0
22.5°	1244.3	1246.5	1256.5	1267.6	1277.6
25°	1215.4	1218.8	1234.3	1249.8	1259.8
27.5°	1183.2	1189.9	1209.9	1229.9	1242.1
30°	1151.0	1157.7	1183.2	1207.7	1219.9
32.5°	1116.6	1124.4	1155.5	1184.3	1201.0
35°	1075.6	1090.0	1125.5	1159.9	1176.6
37.5°	1033.4	1053.4	1095.5	1134.4	1152.2
40°	989.0	1013.4	1063.4	1107.8	1126.6
42.5°	946.8	972.3	1029.0	1078.9	1101.1
45°	894.6	929.1	993.4	1048.9	1070.0
47.5°	843.6	884.7	956.8	1015.6	1040.1
50°	792.5	838.0	919.1	983.4	1004.5
52.5°	734.8	790.3	879.1	943.5	965.7
55°	681.5	741.5	836.9	900.2	923.5
57.5°	622.7	690.4	793.6	855.8	870.2
60°	558.3	638.2	744.8	798.1	802.5
62.5°	497.3	587.2	694.8	728.1	729.3
65°	430.7	532.8	639.3	648.2	638.2
67.5°	368.5	475.1	570.5	563.9	567.2
70°	309.7	420.7	491.7	495.1	491.7
72.5°	245.3	364.1	414.0	421.8	422.9
75°	190.9	307.5	343.0	346.3	347.4
77.5°	145.4	246.4	267.5	273.1	276.4
80°	98.8	172.0	198.7	200.9	195.4
82.5°	64.4	111.0	126.5	126.5	125.4
85°	34.4	59.9	65.5	62.2	61.0
87.5°	12.2	17.8	20.0	20.0	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)