

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: P225706

Luminaire Tested: **24AC-LD5-44-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: P225706
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-LD5-44-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: 3726.1 lumens
Efficiency: N/A
Efficacy: 98.3 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

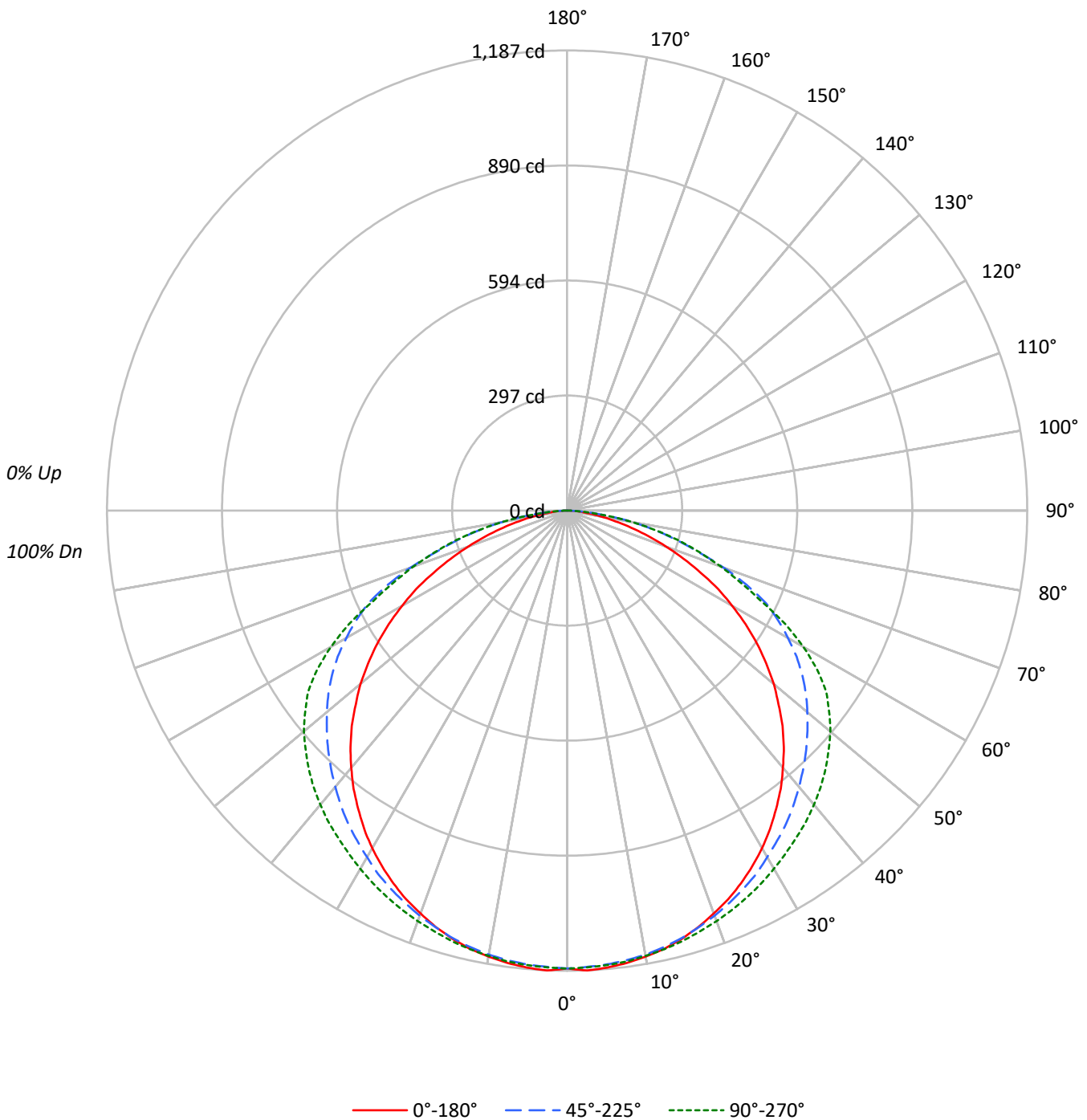
Input Watts (W): 37.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1589	1589	1589
5°	1598	1587	1590
10°	1596	1589	1593
15°	1593	1590	1601
20°	1583	1592	1614
25°	1575	1598	1633
30°	1563	1604	1658
35°	1543	1619	1692
40°	1521	1634	1740
45°	1495	1660	1794
50°	1456	1693	1856
55°	1402	1737	1914
60°	1323	1771	1894
65°	1211	1803	1757
70°	1067	1690	1657
75°	891	1517	1549
80°	704	1320	1312
85°	503	835	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	3.0
10°-20°	322.8	8.7
20°-30°	496.8	13.3
30°-40°	616.3	16.5
40°-50°	669.6	18.0
50°-60°	645.1	17.3
60°-70°	508.9	13.7
70°-80°	288.5	7.7
80°-90°	66.2	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°	931.5	25.0
0°-40°	1547.8	41.5
0°-60°	2862.4	76.8
0°-90°	3726.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3726.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1183	1178	1175	1173	1177	112
15°	1144	1140	1142	1144	1150	323
25°	1061	1062	1076	1090	1100	489
35°	940	952	985	1015	1030	588
45°	786	812	872	922	943	605
55°	598	653	741	796	816	533
65°	380	471	566	560	552	378
75°	171	272	292	296	298	184
85°	33	53	54	54	53	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1181.3	1181.3	1181.3	1181.3	1181.3
2.5°	1187.4	1181.3	1178.2	1176.2	1179.2
5°	1183.3	1178.2	1175.2	1173.1	1177.2
7.5°	1177.2	1172.1	1170.1	1168.0	1173.1
10°	1168.0	1163.9	1162.9	1161.9	1166.0
12.5°	1157.8	1153.7	1153.7	1154.8	1158.8
15°	1143.5	1140.5	1141.5	1143.5	1149.7
17.5°	1126.2	1123.1	1127.2	1131.3	1138.4
20°	1105.8	1105.8	1111.9	1118.0	1127.2
22.5°	1085.4	1085.4	1094.6	1104.8	1114.0
25°	1060.9	1061.9	1076.2	1089.5	1099.7
27.5°	1034.4	1037.5	1056.8	1072.1	1084.4
30°	1005.8	1010.9	1032.4	1054.8	1067.0
32.5°	974.2	981.3	1008.9	1036.4	1048.7
35°	939.5	951.8	985.4	1015.0	1030.3
37.5°	904.8	918.1	958.9	993.6	1011.9
40°	866.1	886.5	930.3	971.1	990.5
42.5°	827.3	848.7	901.8	947.7	968.1
45°	785.5	812.0	872.2	922.2	942.6
47.5°	739.6	774.3	840.6	894.6	915.0
50°	695.7	735.5	808.9	865.1	886.5
52.5°	646.7	693.7	776.3	833.4	851.8
55°	597.8	652.9	740.6	795.7	816.1
57.5°	545.8	608.0	701.8	752.8	765.1
60°	491.7	565.1	658.0	703.9	703.9
62.5°	439.7	518.2	614.1	633.5	635.5
65°	380.5	471.3	566.2	560.0	551.9
67.5°	325.4	425.4	500.9	482.5	483.5
70°	271.3	375.4	429.5	419.3	421.3
72.5°	219.3	323.4	354.0	358.1	358.1
75°	171.4	272.4	291.8	295.8	297.9
77.5°	127.5	218.3	231.6	234.6	232.6
80°	90.8	148.9	170.4	168.3	169.3
82.5°	57.1	95.9	108.1	110.2	107.1
85°	32.6	53.0	54.1	54.1	53.0
87.5°	11.2	16.3	17.3	16.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)