

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: P225670

Luminaire Tested: **24AC-LD5-44-RDP-UNV-L835-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: P225670
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-LD5-44-RDP-UNV-L835-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH RDP LENS
Light Source: (168)3500K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3837.9 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.34 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

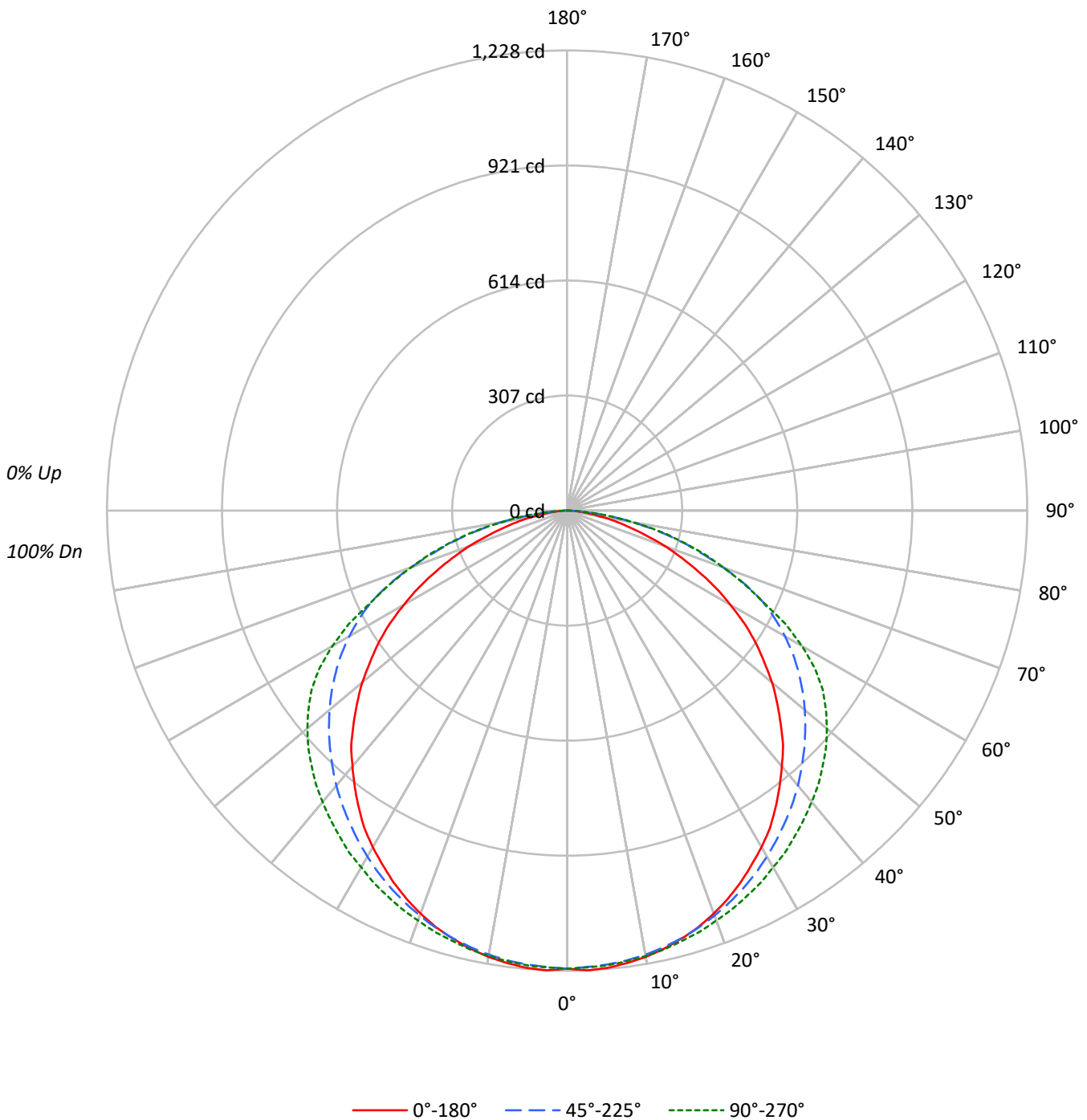
Input Watts (W): 37.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1644	1644	1644
5°	1655	1643	1645
10°	1652	1644	1649
15°	1647	1645	1655
20°	1638	1647	1667
25°	1626	1651	1685
30°	1611	1656	1708
35°	1592	1666	1741
40°	1565	1683	1783
45°	1534	1703	1834
50°	1495	1733	1895
55°	1441	1769	1952
60°	1354	1806	1946
65°	1235	1834	1831
70°	1098	1743	1743
75°	894	1606	1627
80°	690	1387	1364
85°	479	911	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	3.0
10°-20°	333.9	8.7
20°-30°	513.3	13.4
30°-40°	635.0	16.5
40°-50°	687.5	17.9
50°-60°	659.4	17.2
60°-70°	523.4	13.6
70°-80°	300.6	7.8
80°-90°	69.0	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°	963.0	25.1
0°-40°	1598.0	41.6
0°-60°	2944.9	76.7
0°-90°	3837.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3837.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1222	1222	1222	1222	1222	
5°	1225	1219	1216	1214	1218	116
15°	1182	1179	1181	1183	1188	334
25°	1095	1098	1112	1126	1135	505
35°	969	982	1014	1045	1060	606
45°	806	837	895	945	964	622
55°	614	668	754	811	832	547
65°	388	480	576	584	575	385
75°	172	277	309	312	313	187
85°	31	54	59	56	55	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1222.2	1222.2	1222.2	1222.2	1222.2
2.5°	1228.2	1222.2	1219.2	1217.2	1220.2
5°	1225.2	1219.2	1216.2	1214.2	1218.2
7.5°	1218.2	1213.2	1211.2	1210.2	1213.2
10°	1209.2	1204.2	1203.2	1202.2	1207.2
12.5°	1197.1	1193.1	1193.1	1193.1	1199.2
15°	1182.1	1179.1	1181.1	1183.1	1188.1
17.5°	1165.1	1162.1	1167.1	1171.1	1178.1
20°	1144.1	1144.1	1150.1	1156.1	1164.1
22.5°	1121.1	1123.1	1132.1	1142.1	1151.1
25°	1095.1	1098.1	1112.1	1126.1	1135.1
27.5°	1066.1	1072.1	1090.1	1108.1	1119.1
30°	1037.1	1043.1	1066.1	1088.1	1099.1
32.5°	1006.1	1013.1	1041.1	1067.1	1082.1
35°	969.1	982.1	1014.1	1045.1	1060.1
37.5°	931.1	949.1	987.1	1022.1	1038.1
40°	891.1	913.1	958.1	998.1	1015.1
42.5°	853.1	876.1	927.1	972.1	992.1
45°	806.1	837.1	895.1	945.1	964.1
47.5°	760.1	797.1	862.1	915.1	937.1
50°	714.1	755.1	828.1	886.1	905.1
52.5°	662.1	712.1	792.1	850.1	870.1
55°	614.1	668.1	754.1	811.1	832.1
57.5°	561.1	622.1	715.1	771.1	784.1
60°	503.1	575.1	671.1	719.1	723.1
62.5°	448.1	529.1	626.1	656.1	657.1
65°	388.0	480.1	576.1	584.1	575.1
67.5°	332.0	428.1	514.1	508.1	511.1
70°	279.0	379.0	443.1	446.1	443.1
72.5°	221.0	328.0	373.0	380.0	381.0
75°	172.0	277.0	309.0	312.0	313.0
77.5°	131.0	222.0	241.0	246.0	249.0
80°	89.0	155.0	179.0	181.0	176.0
82.5°	58.0	100.0	114.0	114.0	113.0
85°	31.0	54.0	59.0	56.0	55.0
87.5°	11.0	16.0	18.0	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)