

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: P225668

Luminaire Tested: **24AC-LD5-36-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: P225668
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-LD5-36-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: 3140.5 lumens
Efficiency: N/A
Efficacy: 104.5 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

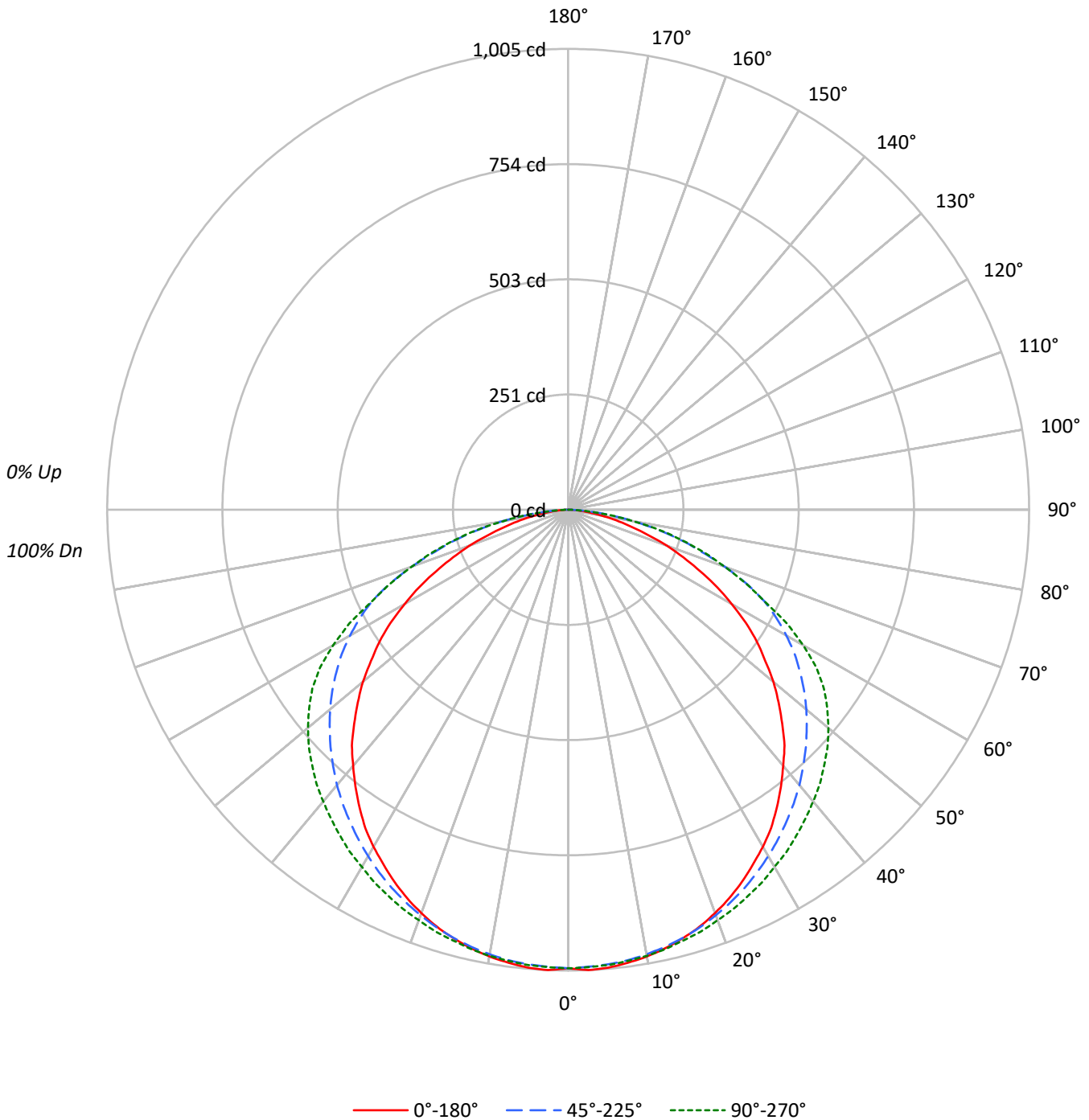
Input Watts (W): 30.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34
8	59	45	37	31	58	45	36	30	43	36	30	42	35	30	41	35	30
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1346	1346	1346
5°	1354	1344	1346
10°	1352	1345	1350
15°	1347	1346	1354
20°	1340	1348	1364
25°	1330	1351	1379
30°	1319	1355	1397
35°	1303	1363	1425
40°	1281	1377	1459
45°	1255	1394	1501
50°	1223	1418	1550
55°	1179	1448	1597
60°	1108	1478	1592
65°	1011	1501	1498
70°	898	1426	1426
75°	732	1315	1332
80°	564	1135	1116
85°	392	746	695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	3.0
10°-20°	273.2	8.7
20°-30°	420.0	13.4
30°-40°	519.6	16.5
40°-50°	562.6	17.9
50°-60°	539.6	17.2
60°-70°	428.3	13.6
70°-80°	246.0	7.8
80°-90°	56.5	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°	788.0	25.1
0°-40°	1307.6	41.6
0°-60°	2409.8	76.7
0°-90°	3140.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3140.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	1002	998	995	994	997	95
15°	967	965	966	968	972	273
25°	896	899	910	922	929	413
35°	793	804	830	855	868	496
45°	660	685	732	773	789	509
55°	502	547	617	664	681	447
65°	318	393	471	478	471	315
75°	141	227	253	255	256	153
85°	25	44	48	46	45	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1000.1	1000.1	1000.1	1000.1	1000.1
2.5°	1005.0	1000.1	997.6	996.0	998.4
5°	1002.5	997.6	995.2	993.5	996.8
7.5°	996.8	992.7	991.1	990.2	992.7
10°	989.4	985.3	984.5	983.7	987.8
12.5°	979.6	976.3	976.3	976.3	981.2
15°	967.3	964.9	966.5	968.1	972.2
17.5°	953.4	951.0	955.1	958.3	964.1
20°	936.2	936.2	941.1	946.1	952.6
22.5°	917.4	919.0	926.4	934.6	942.0
25°	896.1	898.6	910.0	921.5	928.9
27.5°	872.4	877.3	892.0	906.8	915.8
30°	848.7	853.6	872.4	890.4	899.4
32.5°	823.3	829.0	851.9	873.2	885.5
35°	793.0	803.7	829.8	855.2	867.5
37.5°	761.9	776.6	807.7	836.4	849.5
40°	729.2	747.2	784.0	816.7	830.7
42.5°	698.1	716.9	758.6	795.5	811.8
45°	659.6	685.0	732.5	773.4	788.9
47.5°	622.0	652.3	705.4	748.8	766.8
50°	584.3	617.9	677.6	725.1	740.6
52.5°	541.8	582.7	648.2	695.6	712.0
55°	502.5	546.7	617.1	663.7	680.9
57.5°	459.1	509.0	585.1	631.0	641.6
60°	411.6	470.6	549.1	588.4	591.7
62.5°	366.6	432.9	512.3	536.9	537.7
65°	317.5	392.8	471.4	477.9	470.6
67.5°	271.7	350.3	420.7	415.7	418.2
70°	228.3	310.2	362.5	365.0	362.5
72.5°	180.9	268.4	305.3	311.0	311.8
75°	140.8	226.7	252.9	255.3	256.2
77.5°	107.2	181.7	197.2	201.3	203.8
80°	72.8	126.8	146.5	148.1	144.0
82.5°	47.5	81.8	93.3	93.3	92.5
85°	25.4	44.2	48.3	45.8	45.0
87.5°	9.0	13.1	14.7	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)