

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: P225695

Luminaire Tested: **24AC-LD5-36-SQP-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: P225695
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-LD5-36-SQP-UNV-L835-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH SQP 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: 2989.2 lumens
Efficiency: N/A
Efficacy: 99.4 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

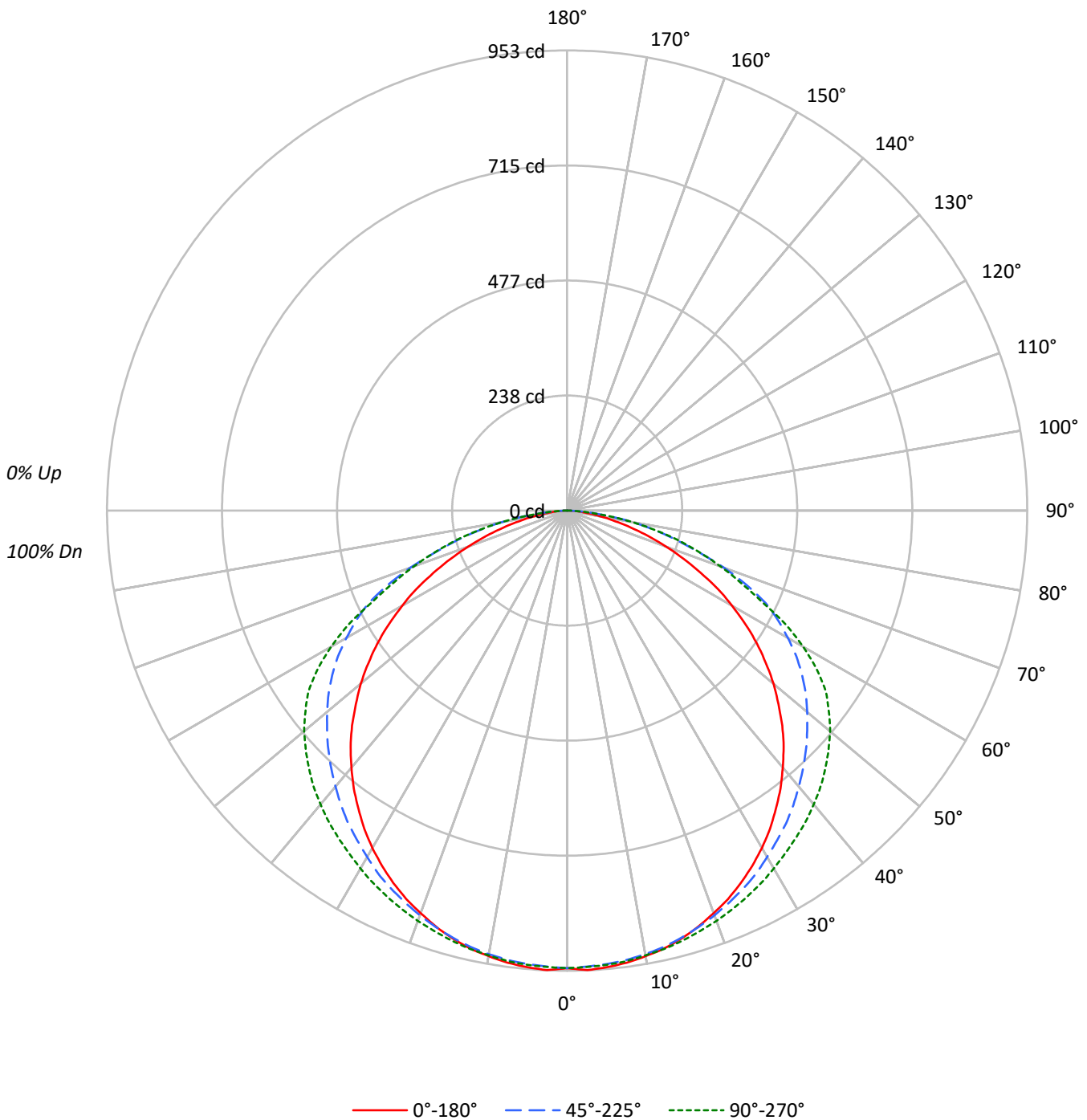
Input Watts (W): 30.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1275	1275	1275
5°	1282	1273	1276
10°	1280	1275	1278
15°	1278	1276	1285
20°	1270	1277	1295
25°	1264	1282	1310
30°	1254	1287	1330
35°	1238	1298	1358
40°	1220	1311	1396
45°	1199	1331	1439
50°	1168	1358	1489
55°	1125	1394	1536
60°	1062	1420	1520
65°	972	1446	1409
70°	856	1355	1330
75°	715	1217	1242
80°	564	1059	1052
85°	404	670	658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	3.0
10°-20°	258.9	8.7
20°-30°	398.6	13.3
30°-40°	494.4	16.5
40°-50°	537.2	18.0
50°-60°	517.5	17.3
60°-70°	408.3	13.7
70°-80°	231.5	7.7
80°-90°	53.1	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°	747.3	25.0
0°-40°	1241.7	41.5
0°-60°	2296.4	76.8
0°-90°	2989.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2989.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	949	945	943	941	944	90
15°	917	915	916	917	922	259
25°	851	852	863	874	882	392
35°	754	764	790	814	827	472
45°	630	651	700	740	756	485
55°	480	524	594	638	655	428
65°	305	378	454	449	443	303
75°	138	218	234	237	239	148
85°	26	43	43	43	43	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.7	947.7	947.7	947.7	947.7
2.5°	952.6	947.7	945.2	943.6	946.0
5°	949.3	945.2	942.8	941.1	944.4
7.5°	944.4	940.3	938.7	937.0	941.1
10°	937.0	933.8	932.9	932.1	935.4
12.5°	928.9	925.6	925.6	926.4	929.7
15°	917.4	914.9	915.8	917.4	922.3
17.5°	903.5	901.0	904.3	907.6	913.3
20°	887.1	887.1	892.0	896.9	904.3
22.5°	870.7	870.7	878.1	886.3	893.7
25°	851.1	851.9	863.4	874.0	882.2
27.5°	829.8	832.3	847.8	860.1	869.9
30°	806.9	811.0	828.2	846.2	856.0
32.5°	781.5	787.3	809.4	831.5	841.3
35°	753.7	763.5	790.5	814.3	826.6
37.5°	725.9	736.5	769.3	797.1	811.8
40°	694.8	711.2	746.4	779.1	794.6
42.5°	663.7	680.9	723.4	760.3	776.6
45°	630.1	651.4	699.7	739.8	756.2
47.5°	593.3	621.1	674.3	717.7	734.1
50°	558.1	590.0	649.0	694.0	711.2
52.5°	518.8	556.5	622.8	668.6	683.3
55°	479.6	523.8	594.1	638.3	654.7
57.5°	437.8	487.7	563.0	604.0	613.8
60°	394.5	453.4	527.8	564.7	564.7
62.5°	352.7	415.7	492.7	508.2	509.8
65°	305.3	378.1	454.2	449.3	442.7
67.5°	261.1	341.3	401.8	387.1	387.9
70°	217.7	301.2	344.5	336.4	338.0
72.5°	175.9	259.4	284.0	287.2	287.2
75°	137.5	218.5	234.1	237.3	239.0
77.5°	102.3	175.1	185.8	188.2	186.6
80°	72.8	119.5	136.7	135.0	135.8
82.5°	45.8	76.9	86.7	88.4	85.9
85°	26.2	42.6	43.4	43.4	42.6
87.5°	9.0	13.1	13.9	13.1	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)