

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: P225687

Luminaire Tested: **24AC-LD5-39-SQP-UNV-L830-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: P225687
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-LD5-39-SQP-UNV-L830-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH SQP LENS
Light Source: (168)3000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3115.9 lumens
Efficiency: N/A
Efficacy: 94.7 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

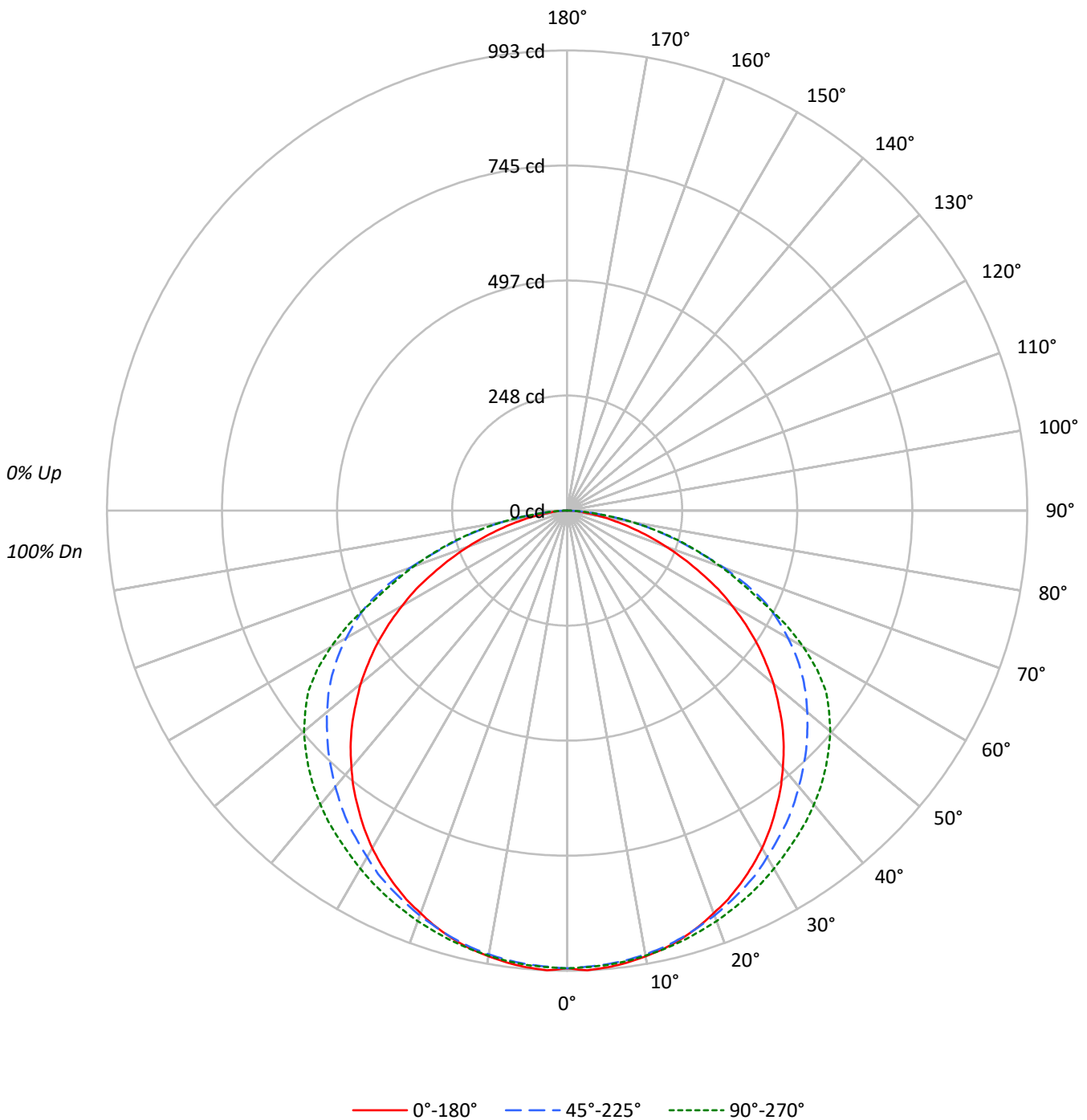
Input Watts (W): 32.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225687

CATALOG NUMBER: 24AC-LD5-39-SQP-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225687

CATALOG NUMBER: 24AC-LD5-39-SQP-UNV-L830-CD1-U

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°	1329	1329	1329
5°	1336	1327	1330
10°	1334	1329	1332
15°	1332	1330	1339
20°	1324	1331	1350
25°	1317	1336	1365
30°	1307	1341	1386
35°	1291	1354	1415
40°	1272	1366	1455
45°	1250	1388	1500
50°	1218	1416	1552
55°	1173	1453	1601
60°	1107	1481	1584
65°	1013	1507	1469
70°	893	1413	1386
75°	745	1268	1295
80°	588	1104	1097
85°	421	698	685



TEST NUMBER: P225687

CATALOG NUMBER: 24AC-LD5-39-SQP-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	3.0
10°-20°	269.9	8.7
20°-30°	415.5	13.3
30°-40°	515.4	16.5
40°-50°	559.9	18.0
50°-60°	539.4	17.3
60°-70°	425.6	13.7
70°-80°	241.3	7.7
80°-90°	55.3	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°	779.0	25.0
0°-40°	1294.4	41.5
0°-60°	2393.7	76.8
0°-90°	3115.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3115.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	990	985	983	981	984	94
15°	956	954	955	956	961	270
25°	887	888	900	911	920	409
35°	786	796	824	849	862	492
45°	657	679	729	771	788	506
55°	500	546	619	665	682	446
65°	318	394	473	468	462	316
75°	143	228	244	247	249	154
85°	27	44	45	45	44	33
90°	0	0	0	0	0	



TEST NUMBER: P225687

CATALOG NUMBER: 24AC-LD5-39-SQP-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	987.8	987.8	987.8	987.8	987.8
2.5°	993.0	987.8	985.3	983.6	986.1
5°	989.5	985.3	982.7	981.0	984.4
7.5°	984.4	980.2	978.5	976.7	981.0
10°	976.7	973.3	972.5	971.6	975.0
12.5°	968.2	964.8	964.8	965.7	969.1
15°	956.3	953.7	954.6	956.3	961.4
17.5°	941.8	939.2	942.6	946.0	952.0
20°	924.7	924.7	929.8	935.0	942.6
22.5°	907.7	907.7	915.3	923.9	931.5
25°	887.2	888.0	900.0	911.1	919.6
27.5°	865.0	867.6	883.8	896.6	906.8
30°	841.1	845.4	863.3	882.1	892.3
32.5°	814.7	820.6	843.7	866.7	876.9
35°	785.7	795.9	824.1	848.8	861.6
37.5°	756.7	767.8	801.9	830.9	846.2
40°	724.2	741.3	778.0	812.1	828.3
42.5°	691.8	709.7	754.1	792.5	809.6
45°	656.9	679.0	729.4	771.2	788.2
47.5°	618.5	647.5	702.9	748.1	765.2
50°	581.8	615.1	676.5	723.4	741.3
52.5°	540.8	580.1	649.2	696.9	712.3
55°	499.9	546.0	619.3	665.4	682.4
57.5°	456.4	508.4	586.9	629.6	639.8
60°	411.2	472.6	550.2	588.6	588.6
62.5°	367.7	433.4	513.5	529.7	531.5
65°	318.2	394.1	473.4	468.3	461.5
67.5°	272.1	355.7	418.9	403.5	404.3
70°	226.9	313.9	359.1	350.6	352.3
72.5°	183.4	270.4	296.0	299.4	299.4
75°	143.3	227.8	244.0	247.4	249.1
77.5°	106.6	182.6	193.6	196.2	194.5
80°	75.9	124.5	142.5	140.8	141.6
82.5°	47.8	80.2	90.4	92.1	89.6
85°	27.3	44.4	45.2	45.2	44.4
87.5°	9.4	13.6	14.5	13.6	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)