

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: P225696

Luminaire Tested: **24AC-LD5-39-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: P225696
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-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: 3239.4 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

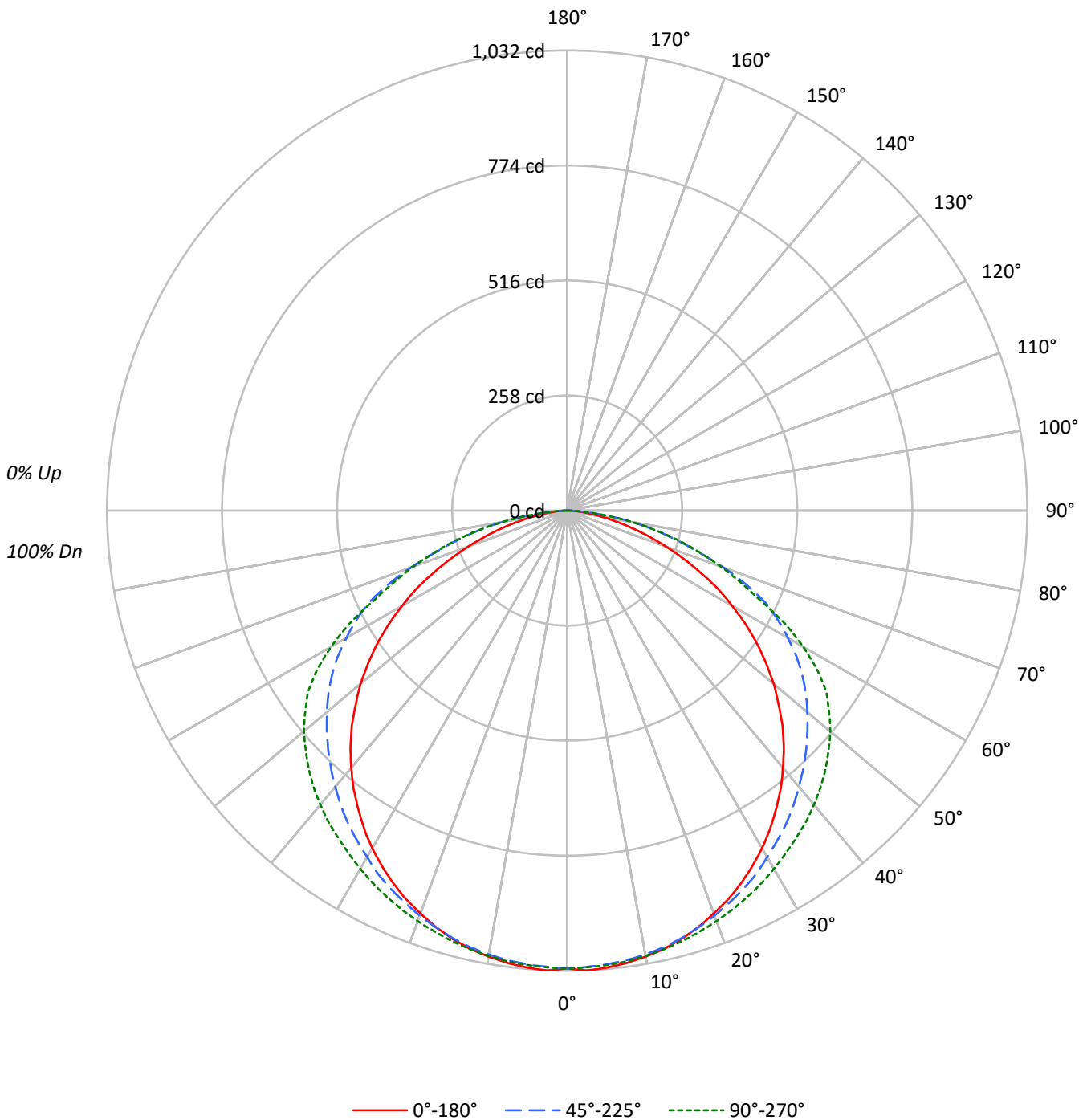
Input Watts (W): 32.94
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1382	1382	1382
5°	1390	1380	1382
10°	1387	1381	1385
15°	1385	1382	1392
20°	1377	1384	1403
25°	1369	1389	1419
30°	1359	1394	1441
35°	1342	1407	1471
40°	1323	1421	1513
45°	1299	1443	1559
50°	1266	1472	1613
55°	1219	1510	1664
60°	1150	1539	1647
65°	1053	1567	1528
70°	928	1469	1441
75°	775	1318	1346
80°	611	1148	1141
85°	438	726	712



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	3.0
10°-20°	280.6	8.7
20°-30°	432.0	13.3
30°-40°	535.8	16.5
40°-50°	582.1	18.0
50°-60°	560.8	17.3
60°-70°	442.5	13.7
70°-80°	250.8	7.7
80°-90°	57.5	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°	809.9	25.0
0°-40°	1345.7	41.5
0°-60°	2488.6	76.8
0°-90°	3239.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3239.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1029	1024	1022	1020	1024	98
15°	994	992	992	994	1000	280
25°	922	923	936	947	956	425
35°	817	828	857	882	896	511
45°	683	706	758	802	820	526
55°	520	568	644	692	710	463
65°	331	410	492	487	480	328
75°	149	237	254	257	259	160
85°	28	46	47	47	46	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1027.0	1027.0	1027.0	1027.0	1027.0
2.5°	1032.3	1027.0	1024.4	1022.6	1025.2
5°	1028.8	1024.4	1021.7	1019.9	1023.5
7.5°	1023.5	1019.0	1017.3	1015.5	1019.9
10°	1015.5	1011.9	1011.0	1010.2	1013.7
12.5°	1006.6	1003.1	1003.1	1004.0	1007.5
15°	994.2	991.5	992.4	994.2	999.5
17.5°	979.1	976.5	980.0	983.6	989.8
20°	961.4	961.4	966.7	972.0	980.0
22.5°	943.6	943.6	951.6	960.5	968.5
25°	922.4	923.2	935.7	947.2	956.1
27.5°	899.3	902.0	918.8	932.1	942.8
30°	874.5	878.9	897.5	917.0	927.7
32.5°	847.0	853.2	877.1	901.1	911.7
35°	816.8	827.5	856.7	882.4	895.8
37.5°	786.7	798.2	833.7	863.8	879.8
40°	753.0	770.7	808.8	844.3	861.2
42.5°	719.3	737.9	784.0	823.9	841.7
45°	682.9	706.0	758.3	801.7	819.5
47.5°	643.0	673.1	730.8	777.8	795.5
50°	604.9	639.4	703.3	752.1	770.7
52.5°	562.3	603.1	674.9	724.6	740.5
55°	519.7	567.6	643.9	691.8	709.5
57.5°	474.5	528.6	610.2	654.5	665.2
60°	427.5	491.3	572.0	611.9	611.9
62.5°	382.2	450.5	533.9	550.8	552.5
65°	330.8	409.7	492.2	486.9	479.8
67.5°	282.9	369.8	435.5	419.5	420.4
70°	235.9	326.4	373.4	364.5	366.3
72.5°	190.7	281.1	307.7	311.3	311.3
75°	149.0	236.8	253.6	257.2	259.0
77.5°	110.9	189.8	201.3	204.0	202.2
80°	78.9	129.5	148.1	146.3	147.2
82.5°	49.7	83.4	94.0	95.8	93.1
85°	28.4	46.1	47.0	47.0	46.1
87.5°	9.8	14.2	15.1	14.2	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)