

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: P225705

Luminaire Tested: **24AC-LD5-39-SQP-UNV-L840-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: P225705
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-L840-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH SQP LENS
Light Source: (168)4000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3304.2 lumens
Efficiency: N/A
Efficacy: 100.3 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

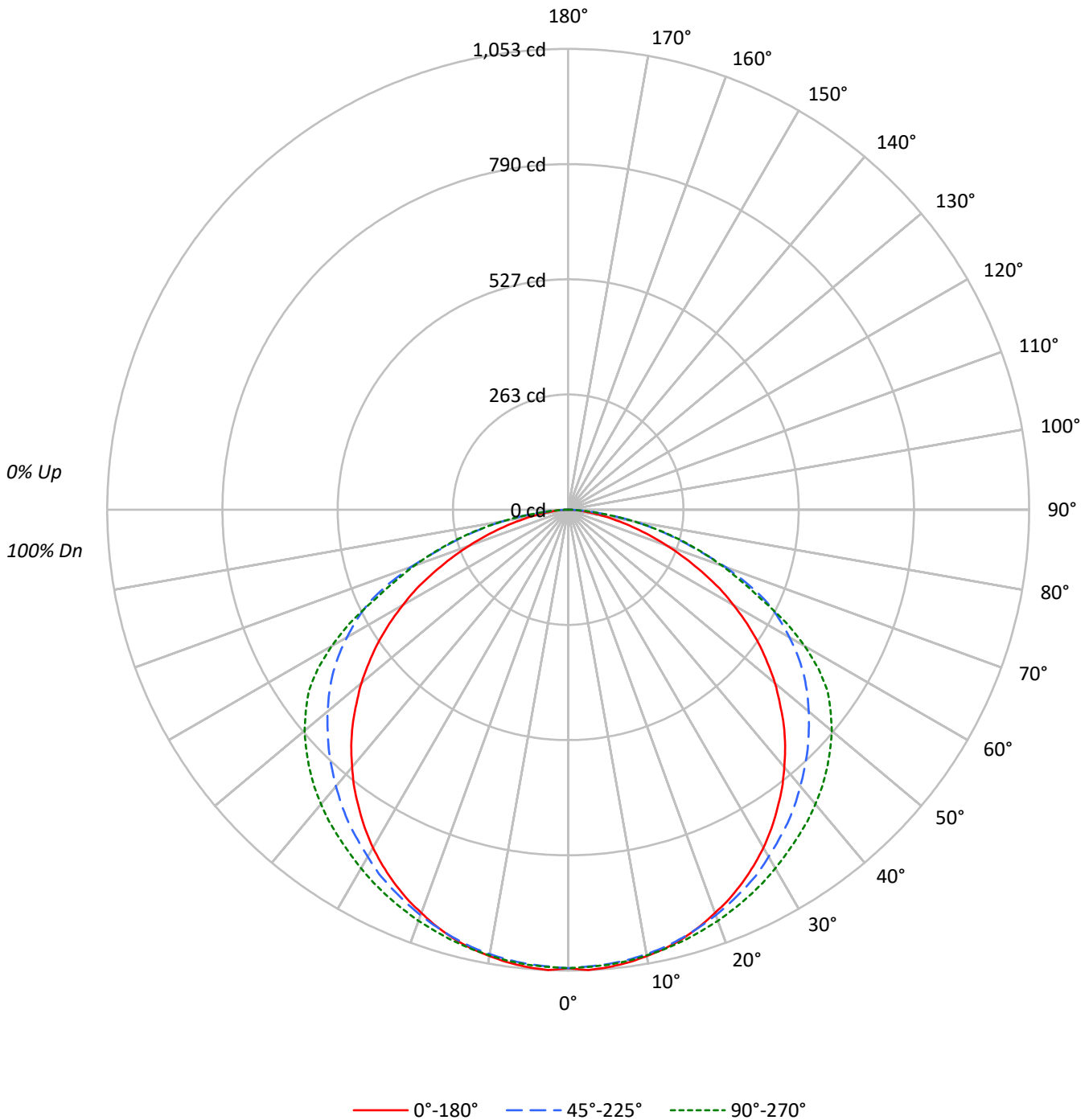
Input Watts (W): 32.94
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1410	1410	1410
5°	1417	1407	1410
10°	1415	1409	1413
15°	1413	1410	1420
20°	1404	1412	1431
25°	1397	1417	1448
30°	1386	1422	1470
35°	1369	1435	1501
40°	1349	1449	1543
45°	1325	1472	1591
50°	1292	1502	1645
55°	1244	1541	1698
60°	1173	1570	1680
65°	1074	1599	1558
70°	947	1498	1470
75°	790	1345	1373
80°	624	1171	1164
85°	446	739	726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.0
10°-20°	286.2	8.7
20°-30°	440.6	13.3
30°-40°	546.5	16.5
40°-50°	593.8	18.0
50°-60°	572.0	17.3
60°-70°	451.3	13.7
70°-80°	255.8	7.7
80°-90°	58.7	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°	826.1	25.0
0°-40°	1372.6	41.5
0°-60°	2538.4	76.8
0°-90°	3304.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3304.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1049	1045	1042	1040	1044	100
15°	1014	1011	1012	1014	1020	286
25°	941	942	954	966	975	434
35°	833	844	874	900	914	521
45°	697	720	774	818	836	536
55°	530	579	657	706	724	473
65°	337	418	502	497	489	335
75°	152	242	259	262	264	163
85°	29	47	48	48	47	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1047.6	1047.6	1047.6	1047.6	1047.6
2.5°	1053.0	1047.6	1044.8	1043.0	1045.7
5°	1049.4	1044.8	1042.1	1040.3	1043.9
7.5°	1043.9	1039.4	1037.6	1035.8	1040.3
10°	1035.8	1032.2	1031.3	1030.4	1034.0
12.5°	1026.7	1023.1	1023.1	1024.0	1027.6
15°	1014.1	1011.4	1012.3	1014.1	1019.5
17.5°	998.7	996.0	999.6	1003.2	1009.6
20°	980.6	980.6	986.0	991.5	999.6
22.5°	962.5	962.5	970.7	979.7	987.8
25°	940.8	941.7	954.4	966.1	975.2
27.5°	917.3	920.0	937.2	950.8	961.6
30°	892.0	896.5	915.5	935.4	946.2
32.5°	863.9	870.2	894.7	919.1	930.0
35°	833.2	844.0	873.9	900.1	913.7
37.5°	802.4	814.2	850.3	881.1	897.4
40°	768.0	786.1	825.0	861.2	878.4
42.5°	733.6	752.6	799.7	840.4	858.5
45°	696.6	720.1	773.5	817.8	835.9
47.5°	655.9	686.6	745.4	793.4	811.4
50°	617.0	652.2	717.4	767.1	786.1
52.5°	573.5	615.1	688.4	739.1	755.4
55°	530.1	579.0	656.8	705.6	723.7
57.5°	484.0	539.2	622.4	667.6	678.5
60°	436.0	501.2	583.5	624.2	624.2
62.5°	389.9	459.5	544.6	561.8	563.6
65°	337.4	417.9	502.1	496.6	489.4
67.5°	288.6	377.2	444.2	427.9	428.8
70°	240.6	332.9	380.8	371.8	373.6
72.5°	194.5	286.8	313.9	317.5	317.5
75°	152.0	241.5	258.7	262.3	264.1
77.5°	113.1	193.6	205.3	208.1	206.3
80°	80.5	132.1	151.1	149.3	150.2
82.5°	50.7	85.0	95.9	97.7	95.0
85°	28.9	47.0	47.9	47.9	47.0
87.5°	10.0	14.5	15.4	14.5	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)