

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: P225593

Luminaire Tested: **22AC-LD5-38-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: P225593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35761)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22AC-LD5-38-UNV-L840-CD1-U
Description: METALUX Accord 2X2 LED TROFFER
Light Source: (84)4000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3903.6 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

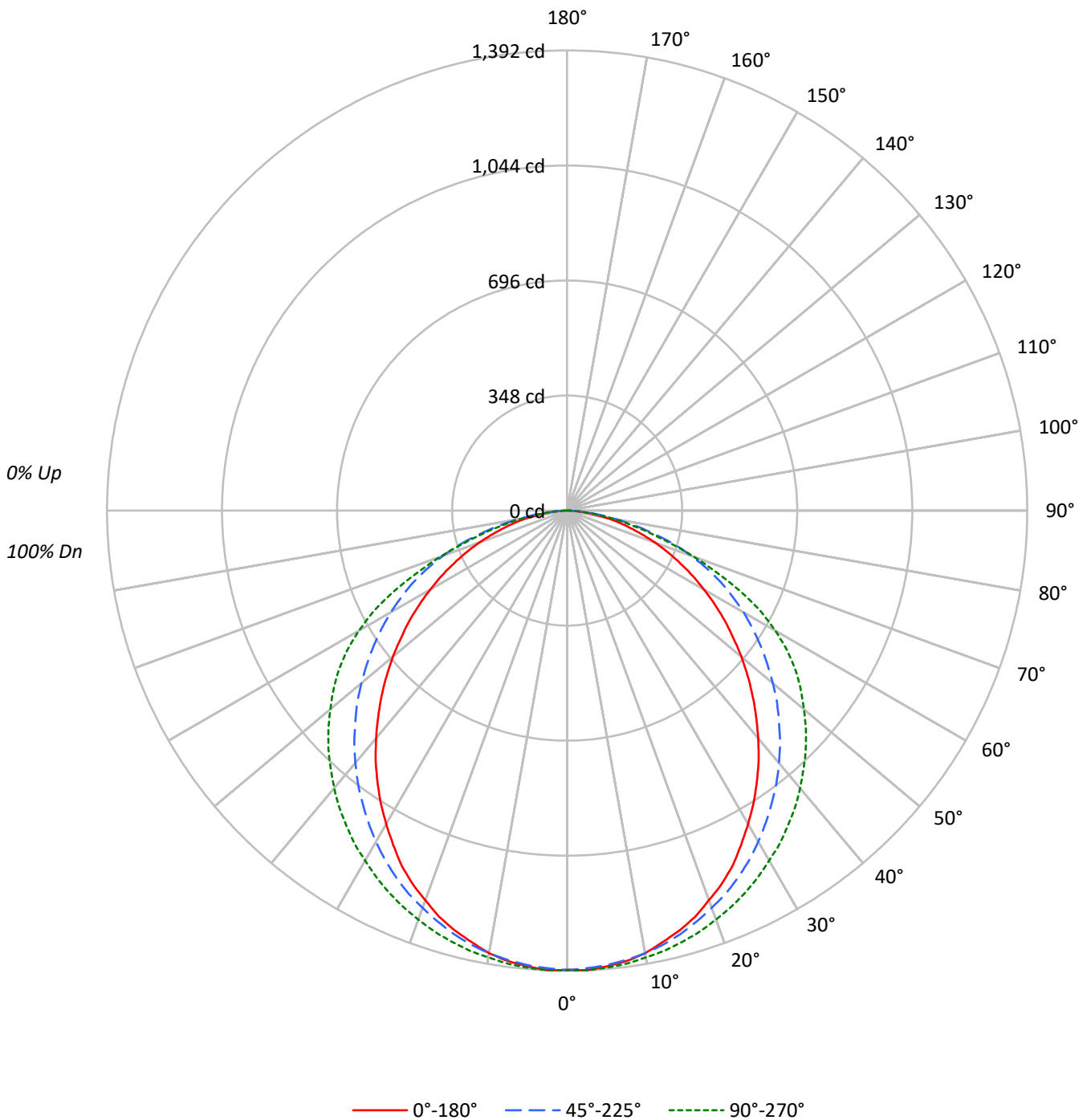
Input Watts (W): 34.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225593

CATALOG NUMBER: 22AC-LD5-38-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225593

CATALOG NUMBER: 22AC-LD5-38-UNV-L840-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	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3740	3740	3740
5°	3739	3729	3749
10°	3715	3715	3751
15°	3662	3694	3762
20°	3592	3662	3770
25°	3518	3635	3786
30°	3401	3594	3798
35°	3286	3546	3824
40°	3158	3501	3851
45°	3020	3449	3886
50°	2882	3401	3913
55°	2735	3353	3961
60°	2570	3320	3917
65°	2407	3269	3688
70°	2220	3137	3211
75°	1994	2816	2659
80°	1719	2331	2157
85°	1337	1568	1510



TEST NUMBER: P225593

CATALOG NUMBER: 22AC-LD5-38-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	3.4
10°-20°	375.0	9.6
20°-30°	565.0	14.5
30°-40°	676.5	17.3
40°-50°	699.6	17.9
50°-60°	639.0	16.4
60°-70°	489.0	12.5
70°-80°	265.9	6.8
80°-90°	62.2	1.6
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°	1071.3	27.4
0°-40°	1747.8	44.8
0°-60°	3086.5	79.1
0°-90°	3903.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3903.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1384	1382	1380	1384	1388	131
15°	1314	1316	1326	1341	1350	370
25°	1185	1194	1224	1258	1275	544
35°	1000	1023	1079	1138	1164	625
45°	794	826	906	987	1021	612
55°	583	628	715	809	844	521
65°	378	421	513	572	579	375
75°	192	237	271	265	256	205
85°	43	49	51	49	49	51
90°	0	0	0	0	0	



TEST NUMBER: P225593

CATALOG NUMBER: 22AC-LD5-38-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.7	1389.7	1389.7	1389.7	1389.7
2.5°	1391.6	1387.8	1385.9	1389.7	1391.6
5°	1384.0	1382.2	1380.3	1384.0	1387.8
7.5°	1374.6	1370.9	1370.9	1378.4	1382.2
10°	1359.6	1355.8	1359.6	1369.0	1372.8
12.5°	1337.0	1338.9	1344.6	1357.7	1363.4
15°	1314.5	1316.4	1325.8	1340.8	1350.2
17.5°	1288.1	1291.9	1303.2	1325.8	1335.2
20°	1254.3	1259.9	1278.7	1305.1	1316.4
22.5°	1222.3	1228.0	1254.3	1284.4	1297.5
25°	1184.7	1194.1	1224.2	1258.1	1275.0
27.5°	1139.6	1156.5	1192.2	1231.7	1250.5
30°	1094.5	1113.3	1156.5	1203.5	1222.3
32.5°	1049.3	1068.1	1118.9	1173.4	1196.0
35°	1000.4	1023.0	1079.4	1137.7	1164.0
37.5°	951.5	977.9	1039.9	1103.9	1132.1
40°	898.9	929.0	996.7	1068.1	1096.3
42.5°	846.2	874.4	953.4	1026.8	1058.7
45°	793.6	825.5	906.4	987.3	1021.1
47.5°	740.9	774.8	861.3	944.0	979.7
50°	688.3	725.9	812.4	900.8	934.6
52.5°	633.7	673.2	763.5	855.6	891.4
55°	583.0	628.1	714.6	808.6	844.3
57.5°	530.3	575.4	665.7	759.7	789.8
60°	477.6	519.0	616.8	703.3	727.8
62.5°	428.8	470.1	564.2	641.3	660.1
65°	378.0	421.2	513.4	571.7	579.2
67.5°	329.1	372.3	457.0	500.2	490.8
70°	282.1	325.3	398.7	413.7	408.1
72.5°	235.1	280.2	340.4	338.5	325.3
75°	191.8	236.9	270.8	265.2	255.7
77.5°	154.2	189.9	210.6	201.2	193.7
80°	110.9	144.8	150.4	142.9	139.2
82.5°	77.1	94.0	97.8	94.0	90.3
85°	43.3	48.9	50.8	48.9	48.9
87.5°	13.2	13.2	16.9	20.7	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)