

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: P393131

Luminaire Tested: **14EN-LD2-43-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-54)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-43-UNV-L83050-W2A-1-U (3000K)
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4184.5 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

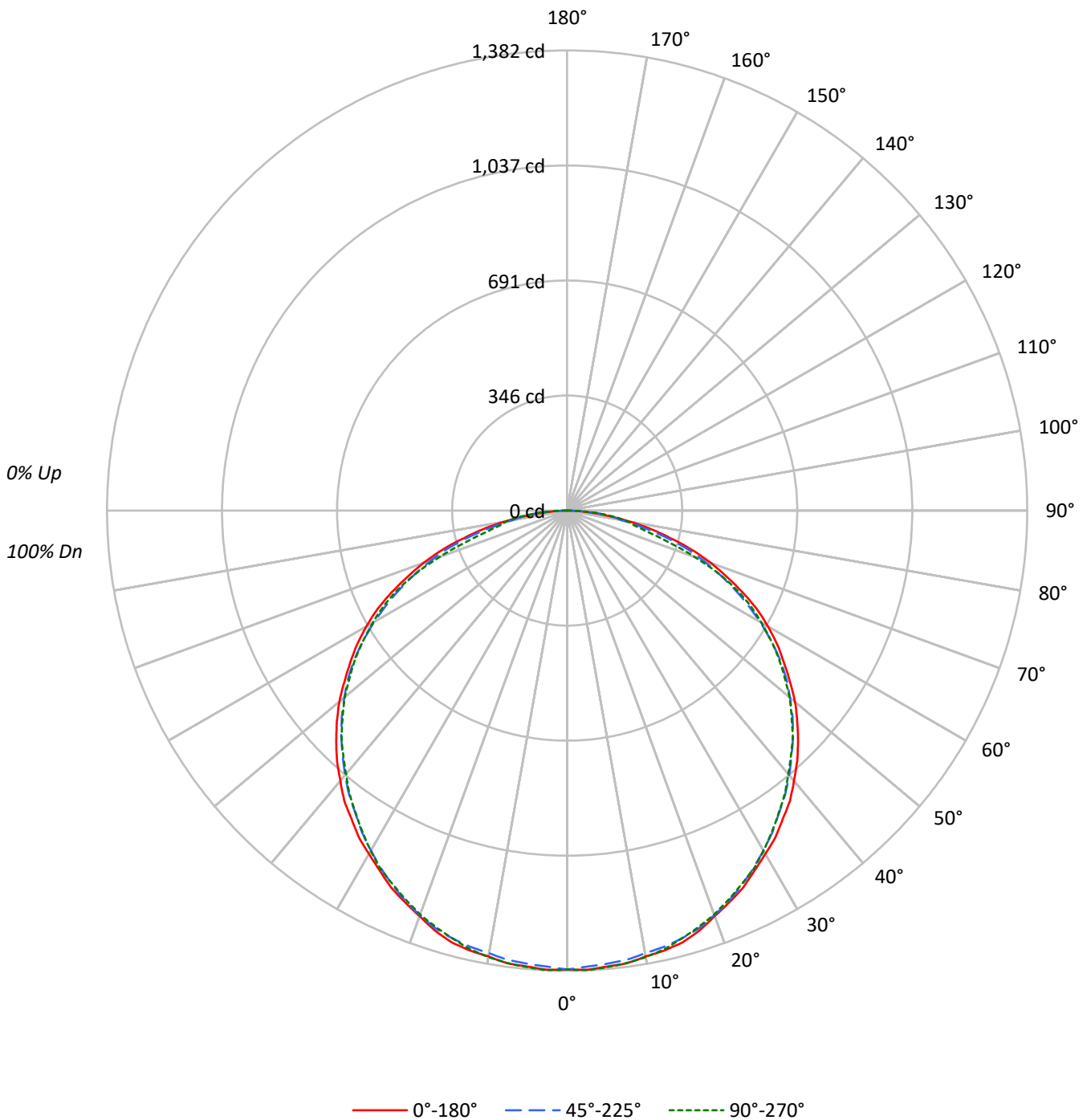
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393131

CATALOG NUMBER: 14EN-LD2-43-UNV-L83050-W2A-1-U (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P393131

CATALOG NUMBER: 14EN-LD2-43-UNV-L83050-W2A-1-U (3000K)

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	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3710	3710	3710
5°	3713	3692	3718
10°	3716	3689	3721
15°	3739	3706	3706
20°	3711	3702	3697
25°	3710	3684	3678
30°	3700	3663	3666
35°	3711	3643	3640
40°	3723	3643	3629
45°	3733	3651	3647
50°	3740	3658	3650
55°	3730	3661	3642
60°	3749	3601	3627
65°	3703	3508	3577
70°	3607	3406	3212
75°	3346	3141	2619
80°	2958	2562	2820
85°	2158	2794	2856



TEST NUMBER: P393131

CATALOG NUMBER: 14EN-LD2-43-UNV-L83050-W2A-1-U (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	3.1
10°-20°	376.2	9.0
20°-30°	572.4	13.7
30°-40°	698.7	16.7
40°-50°	744.4	17.8
50°-60°	697.9	16.7
60°-70°	554.4	13.2
70°-80°	315.2	7.5
80°-90°	94.6	2.3
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°	1079.2	25.8
0°-40°	1777.9	42.5
0°-60°	3220.3	77.0
0°-90°	4184.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4184.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1375	1372	1367	1378	1376	131
15°	1342	1338	1330	1328	1330	378
25°	1250	1244	1241	1237	1239	575
35°	1130	1120	1109	1112	1108	708
45°	981	976	959	956	958	757
55°	795	788	780	770	776	712
65°	582	572	551	558	562	574
75°	322	319	302	269	252	343
85°	70	77	90	90	92	86
90°	0	0	0	0	0	



TEST NUMBER: P393131

CATALOG NUMBER: 14EN-LD2-43-UNV-L83050-W2A-1-U (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378.5	1378.5	1378.5	1378.5	1378.5
2.5°	1380.5	1376.5	1370.6	1383.4	1381.5
5°	1374.6	1371.6	1366.7	1377.5	1376.5
7.5°	1371.6	1365.7	1360.8	1372.6	1370.6
10°	1359.8	1360.8	1350.0	1361.8	1361.8
12.5°	1352.9	1351.0	1342.1	1346.0	1349.0
15°	1342.1	1338.2	1330.3	1328.3	1330.3
17.5°	1322.4	1318.5	1315.5	1308.7	1311.6
20°	1295.9	1297.8	1292.9	1287.0	1290.9
22.5°	1273.2	1271.3	1269.3	1263.4	1265.4
25°	1249.6	1243.7	1240.8	1236.8	1238.8
27.5°	1219.1	1215.2	1211.2	1209.3	1213.2
30°	1190.6	1184.7	1178.8	1176.8	1179.8
32.5°	1164.0	1153.2	1146.3	1147.3	1144.3
35°	1129.6	1119.7	1108.9	1111.9	1107.9
37.5°	1099.1	1087.3	1075.5	1078.4	1073.5
40°	1059.7	1052.8	1037.1	1039.0	1033.1
42.5°	1022.3	1018.4	997.7	998.7	995.8
45°	981.0	976.1	959.3	956.4	958.4
47.5°	937.7	932.8	918.0	911.1	914.1
50°	893.4	887.5	873.7	867.8	871.8
52.5°	843.2	840.3	829.5	820.6	823.6
55°	795.0	788.1	780.3	770.4	776.3
57.5°	747.8	739.9	725.2	720.2	726.2
60°	696.6	683.8	669.1	665.1	674.0
62.5°	643.5	628.7	610.0	611.0	621.9
65°	581.5	571.7	551.0	557.9	561.8
67.5°	518.5	510.7	491.0	500.8	490.0
70°	458.5	448.7	432.9	420.1	408.3
72.5°	394.6	382.8	372.9	339.5	325.7
75°	321.8	318.8	302.1	268.6	251.9
77.5°	259.8	252.9	230.2	204.7	206.6
80°	190.9	195.8	165.3	177.1	182.0
82.5°	125.9	128.9	136.8	142.7	141.7
85°	69.9	76.7	90.5	90.5	92.5
87.5°	26.6	34.4	39.4	40.3	40.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)