

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: P393403

Luminaire Tested: **22EN-LD2-43-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-43-UNV-L93050-W2A-1-U (3000K)
Description: 2X2 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3531.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

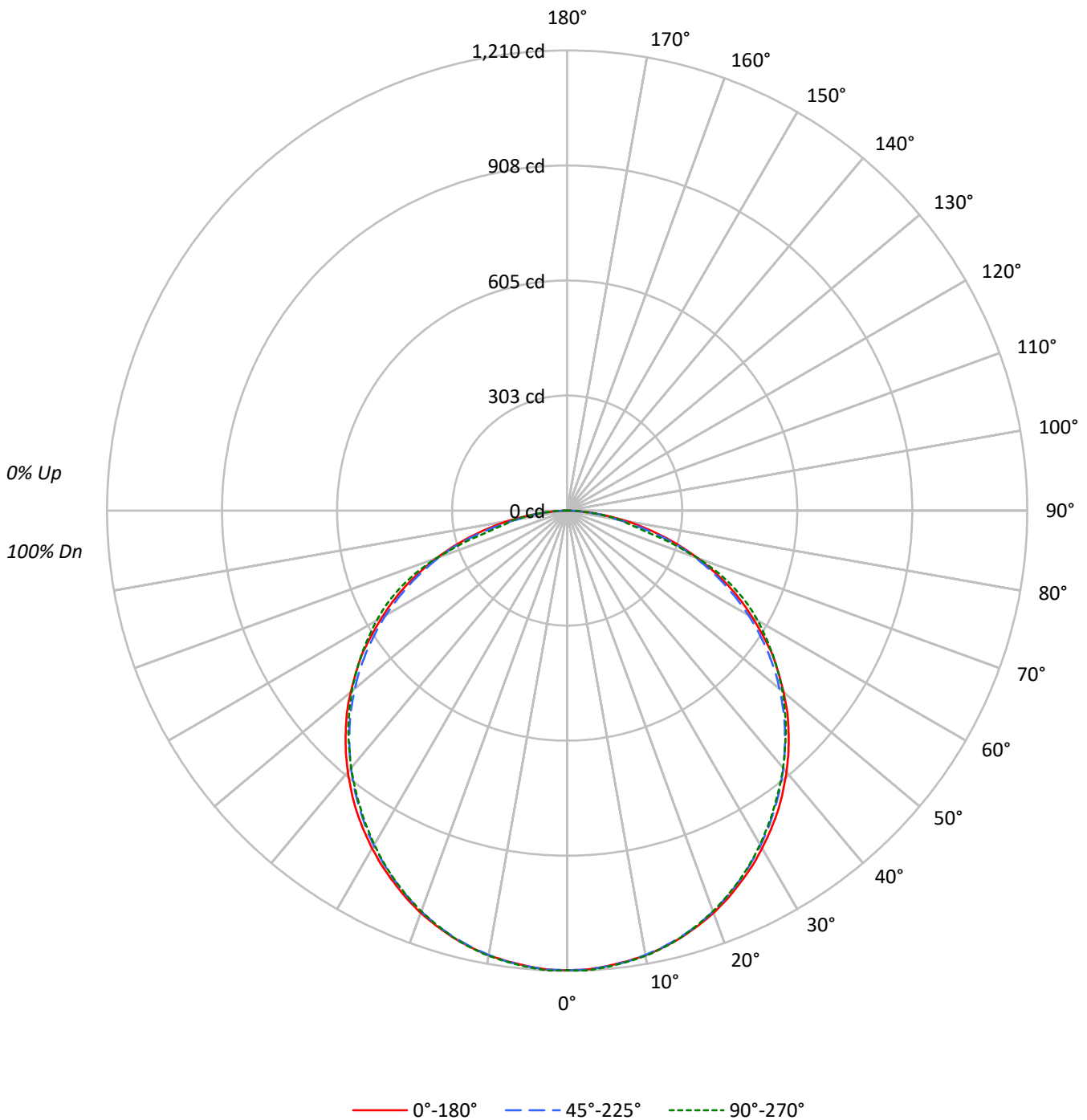
Input Watts (W): 32.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393403

CATALOG NUMBER: 22EN-LD2-43-UNV-L93050-W2A-1-U (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P393403

CATALOG NUMBER: 22EN-LD2-43-UNV-L93050-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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3253	3253	3253
5°	3247	3250	3254
10°	3245	3242	3249
15°	3237	3230	3235
20°	3224	3212	3212
25°	3203	3187	3184
30°	3187	3159	3151
35°	3172	3131	3120
40°	3152	3106	3103
45°	3134	3080	3096
50°	3110	3051	3096
55°	3088	3015	3096
60°	3030	2968	3113
65°	2977	2898	3103
70°	2871	2806	2877
75°	2708	2563	2230
80°	2433	2038	2190
85°	1800	1853	1775



TEST NUMBER: P393403

CATALOG NUMBER: 22EN-LD2-43-UNV-L93050-W2A-1-U (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	3.2
10°-20°	327.3	9.3
20°-30°	495.1	14.0
30°-40°	597.8	16.9
40°-50°	627.6	17.8
50°-60°	581.1	16.5
60°-70°	459.8	13.0
70°-80°	258.6	7.3
80°-90°	69.2	2.0
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°	936.8	26.5
0°-40°	1534.6	43.5
0°-60°	2743.3	77.7
0°-90°	3531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1209	1209	1209	1209	1209	
5°	1202	1201	1203	1203	1205	114
15°	1162	1160	1160	1160	1161	328
25°	1079	1077	1073	1072	1072	498
35°	966	961	953	948	950	604
45°	823	819	809	807	814	635
55°	658	652	643	648	660	586
65°	468	462	455	472	487	462
75°	260	256	246	225	214	275
85°	58	57	60	57	58	73
90°	0	0	0	0	0	



TEST NUMBER: P393403

CATALOG NUMBER: 22EN-LD2-43-UNV-L93050-W2A-1-U (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1208.8	1208.8	1208.8	1208.8	1208.8
2.5°	1208.0	1207.1	1208.0	1208.0	1210.4
5°	1202.2	1201.4	1203.0	1203.0	1204.7
7.5°	1195.6	1194.8	1196.5	1196.5	1197.3
10°	1187.4	1185.8	1186.6	1187.4	1189.1
12.5°	1175.9	1174.3	1174.3	1175.1	1176.7
15°	1161.9	1160.3	1159.5	1159.5	1161.1
17.5°	1144.7	1142.2	1142.2	1140.6	1142.2
20°	1125.8	1123.3	1121.7	1120.0	1121.7
22.5°	1103.6	1101.1	1098.7	1097.0	1097.8
25°	1078.9	1077.3	1073.2	1071.6	1072.4
27.5°	1053.5	1051.0	1046.1	1042.8	1044.4
30°	1025.5	1022.2	1016.5	1012.4	1014.0
32.5°	996.0	992.7	986.1	981.2	982.8
35°	965.5	961.4	953.2	948.3	949.9
37.5°	931.9	928.6	919.5	914.6	917.1
40°	897.3	894.1	884.2	880.1	883.4
42.5°	861.2	857.9	847.2	843.1	848.0
45°	823.4	819.3	809.4	807.0	813.5
47.5°	785.6	779.8	770.0	768.3	776.5
50°	742.9	738.7	728.9	729.7	739.6
52.5°	700.1	696.8	687.0	690.3	699.3
55°	658.2	651.6	642.6	648.4	659.9
57.5°	609.7	605.6	597.4	606.4	618.8
60°	562.9	559.6	551.4	562.9	578.5
62.5°	516.9	510.3	502.9	519.3	535.8
65°	467.6	461.8	455.2	472.5	487.3
67.5°	416.6	410.9	405.9	421.6	432.2
70°	364.9	359.9	356.6	361.6	365.7
72.5°	313.1	308.2	305.7	294.2	290.9
75°	260.5	256.4	246.5	225.2	214.5
77.5°	207.9	203.0	186.5	166.0	166.8
80°	157.0	151.2	131.5	137.2	141.3
82.5°	106.8	102.7	98.6	97.0	97.8
85°	58.3	56.7	60.0	56.7	57.5
87.5°	23.8	24.7	26.3	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)