

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: P393400

Luminaire Tested: **22EN-LD2-43-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393400  
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-L92765-W2A-1-U (5700K)  
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: 3677.6 lumens  
Efficiency: N/A  
Efficacy: 112.5 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

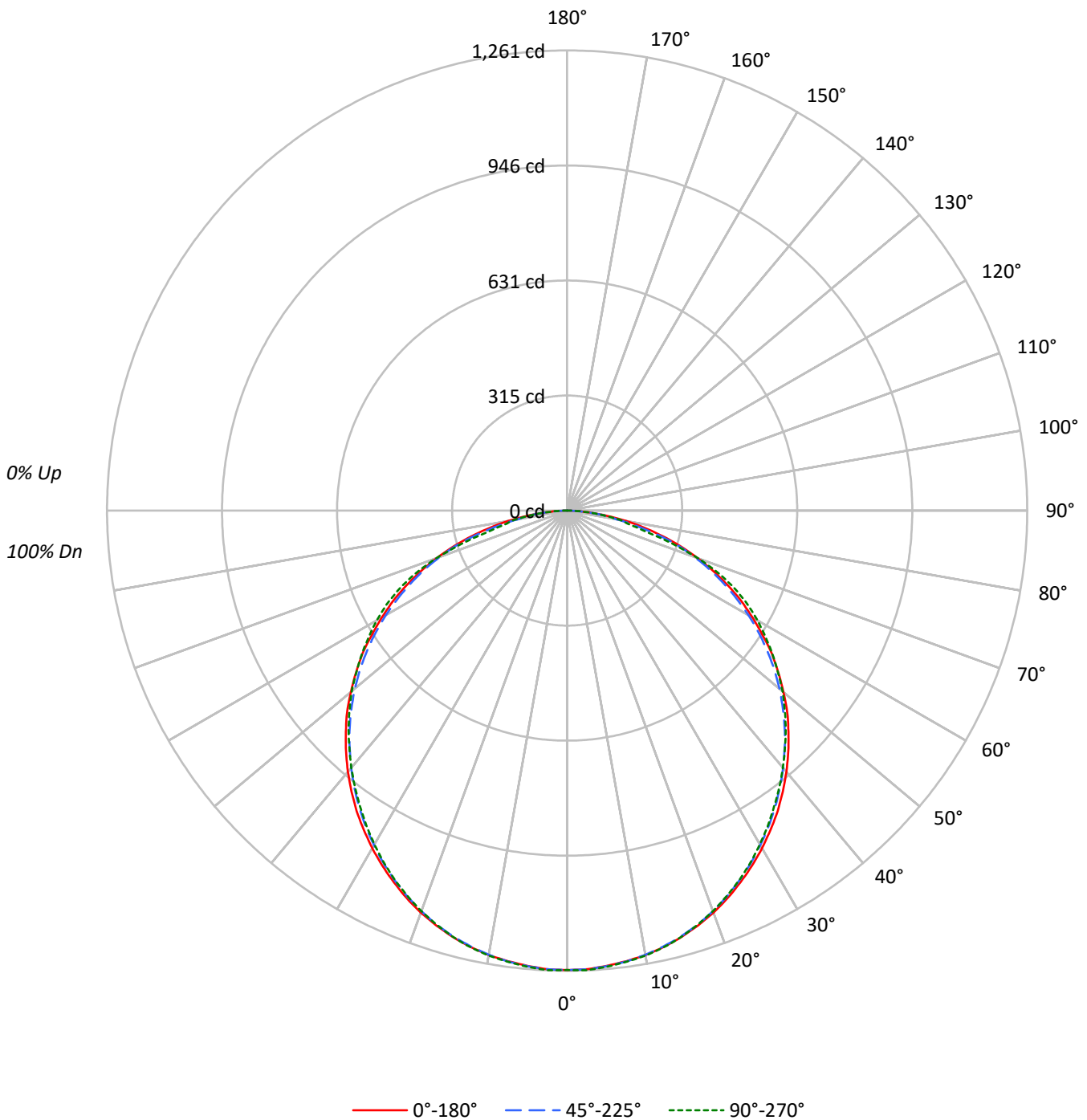
Input Watts (W): 32.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P393400

CATALOG NUMBER: 22EN-LD2-43-UNV-L92765-W2A-1-U (5700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P393400

CATALOG NUMBER: 22EN-LD2-43-UNV-L92765-W2A-1-U (5700K)

**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°	3388	3388	3388
5°	3382	3385	3389
10°	3379	3377	3384
15°	3372	3364	3369
20°	3358	3346	3346
25°	3337	3319	3316
30°	3319	3290	3282
35°	3303	3261	3250
40°	3283	3235	3232
45°	3264	3208	3225
50°	3239	3178	3225
55°	3217	3140	3225
60°	3155	3091	3243
65°	3101	3019	3231
70°	2990	2922	2997
75°	2821	2670	2323
80°	2534	2122	2281
85°	1877	1930	1849



TEST NUMBER: P393400

CATALOG NUMBER: 22EN-LD2-43-UNV-L92765-W2A-1-U (5700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.1	3.2
10°-20°	340.9	9.3
20°-30°	515.7	14.0
30°-40°	622.6	16.9
40°-50°	653.7	17.8
50°-60°	605.3	16.5
60°-70°	479.0	13.0
70°-80°	269.4	7.3
80°-90°	72.1	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°	975.7	26.5
0°-40°	1598.3	43.5
0°-60°	2857.3	77.7
0°-90°	3677.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3677.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1252	1251	1253	1253	1255	119
15°	1210	1208	1208	1208	1209	341
25°	1124	1122	1118	1116	1117	518
35°	1006	1001	993	988	989	629
45°	858	853	843	840	847	662
55°	686	679	669	675	687	611
65°	487	481	474	492	508	481
75°	271	267	257	234	223	286
85°	61	59	62	59	60	76
90°	0	0	0	0	0	



TEST NUMBER: P393400

CATALOG NUMBER: 22EN-LD2-43-UNV-L92765-W2A-1-U (5700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1259.0	1259.0	1259.0	1259.0	1259.0
2.5°	1258.1	1257.3	1258.1	1258.1	1260.7
5°	1252.1	1251.3	1253.0	1253.0	1254.7
7.5°	1245.3	1244.4	1246.1	1246.1	1247.0
10°	1236.7	1235.0	1235.9	1236.7	1238.4
12.5°	1224.7	1223.0	1223.0	1223.9	1225.6
15°	1210.2	1208.5	1207.6	1207.6	1209.3
17.5°	1192.2	1189.7	1189.7	1187.9	1189.7
20°	1172.5	1170.0	1168.3	1166.5	1168.3
22.5°	1149.4	1146.9	1144.3	1142.6	1143.4
25°	1123.8	1122.0	1117.8	1116.1	1116.9
27.5°	1097.2	1094.7	1089.5	1086.1	1087.8
30°	1068.1	1064.7	1058.7	1054.4	1056.1
32.5°	1037.3	1033.9	1027.0	1021.9	1023.6
35°	1005.6	1001.4	992.8	987.7	989.4
37.5°	970.6	967.1	957.7	952.6	955.1
40°	934.6	931.2	920.9	916.6	920.1
42.5°	897.0	893.5	882.4	878.1	883.3
45°	857.6	853.3	843.0	840.5	847.3
47.5°	818.2	812.2	801.9	800.2	808.8
50°	773.7	769.4	759.2	760.0	770.3
52.5°	729.2	725.8	715.5	718.9	728.3
55°	685.6	678.7	669.3	675.3	687.3
57.5°	635.1	630.8	622.2	631.6	644.5
60°	586.3	582.8	574.3	586.3	602.5
62.5°	538.3	531.5	523.8	540.9	558.0
65°	487.0	481.0	474.2	492.1	507.5
67.5°	433.9	427.9	422.8	439.1	450.2
70°	380.0	374.9	371.4	376.6	380.9
72.5°	326.1	321.0	318.4	306.4	303.0
75°	271.3	267.0	256.8	234.5	223.4
77.5°	216.5	211.4	194.3	172.9	173.7
80°	163.5	157.5	136.9	142.9	147.2
82.5°	111.3	107.0	102.7	101.0	101.8
85°	60.8	59.1	62.5	59.1	59.9
87.5°	24.8	25.7	27.4	26.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)