

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: P393348

Luminaire Tested: **22EN-LD2-39-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393348  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22EN-LD2-39-UNV-L82765-W2A-1-U (3500K)  
Description: 2X2 ENCOUNTER, 3900 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3723.4 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

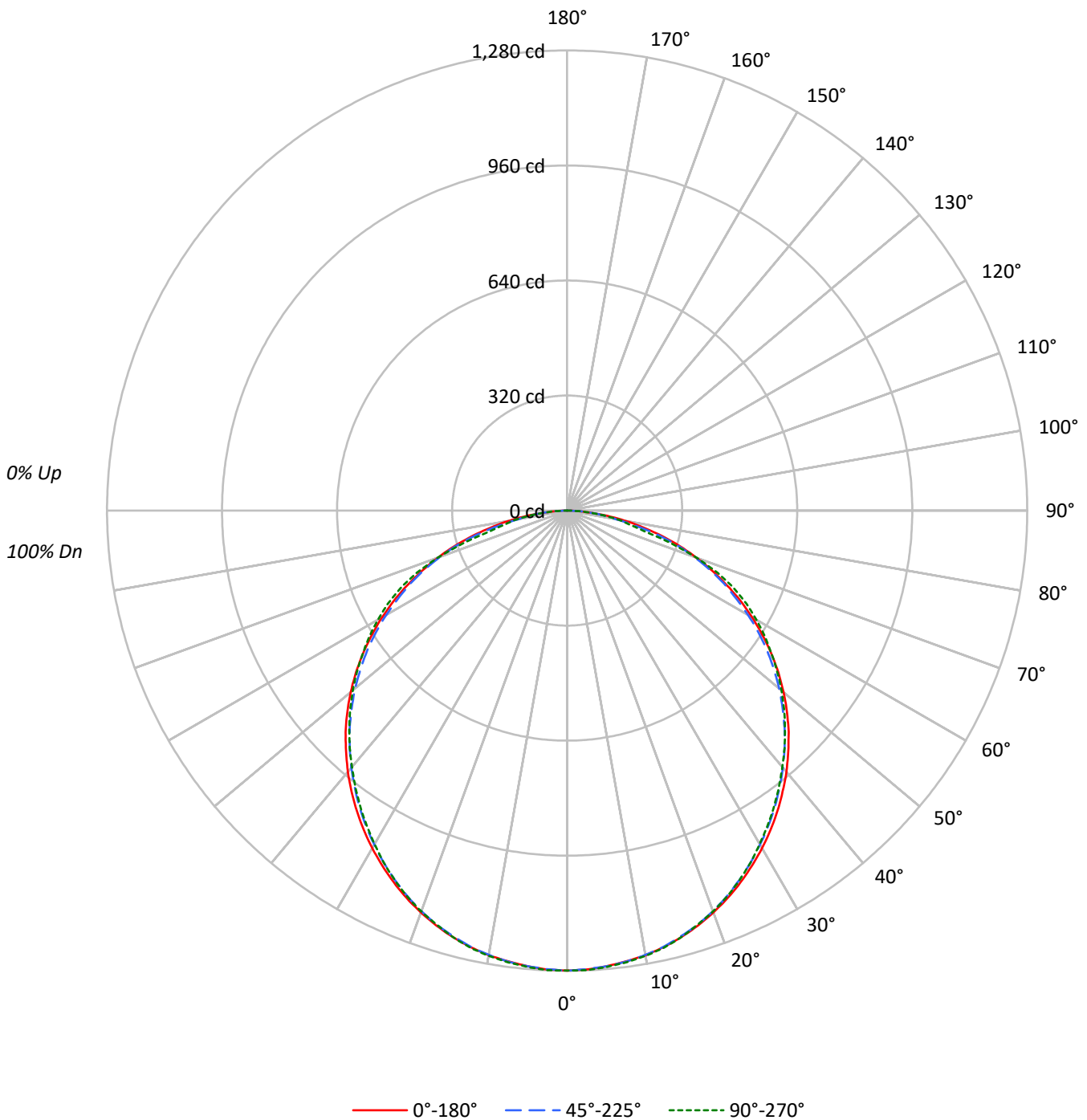
Input Watts (W): 29.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	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	40	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°	3443	3443	3443
5°	3436	3436	3441
10°	3432	3429	3437
15°	3422	3414	3422
20°	3407	3396	3398
25°	3389	3366	3369
30°	3370	3334	3329
35°	3351	3307	3298
40°	3334	3281	3270
45°	3316	3255	3262
50°	3291	3224	3259
55°	3253	3186	3257
60°	3201	3130	3272
65°	3118	3063	3263
70°	3003	2951	3010
75°	2826	2708	2304
80°	2540	2143	2275
85°	1812	1843	1843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.9	3.2
10°-20°	346.1	9.3
20°-30°	523.1	14.0
30°-40°	631.3	17.0
40°-50°	662.4	17.8
50°-60°	613.0	16.5
60°-70°	483.9	13.0
70°-80°	271.0	7.3
80°-90°	71.7	1.9
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°	990.1	26.6
0°-40°	1621.4	43.5
0°-60°	2896.8	77.8
0°-90°	3723.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3723.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1280	1280	1280	1280	1280	
5°	1272	1270	1272	1272	1274	121
15°	1228	1228	1226	1226	1228	347
25°	1141	1138	1134	1131	1135	526
35°	1020	1015	1007	1001	1004	638
45°	871	866	855	850	857	672
55°	693	688	679	684	694	619
65°	490	486	481	496	512	484
75°	272	269	260	233	222	288
85°	59	59	60	60	60	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1279.6	1279.6	1279.6	1279.6	1279.6
2.5°	1277.7	1275.8	1276.7	1277.7	1279.6
5°	1272.0	1270.1	1272.0	1272.0	1273.9
7.5°	1264.4	1263.5	1265.3	1265.3	1267.2
10°	1255.9	1254.0	1254.9	1254.9	1257.8
12.5°	1243.6	1242.6	1242.6	1242.6	1245.5
15°	1228.4	1227.5	1225.6	1225.6	1228.4
17.5°	1210.4	1208.5	1207.6	1205.7	1207.6
20°	1189.6	1187.7	1185.8	1183.9	1186.7
22.5°	1166.8	1165.0	1161.2	1158.3	1162.1
25°	1141.3	1137.5	1133.7	1130.9	1134.6
27.5°	1113.8	1109.1	1104.3	1101.5	1104.3
30°	1084.4	1079.7	1073.1	1068.3	1071.2
32.5°	1053.2	1048.5	1040.9	1036.1	1038.0
35°	1020.0	1015.3	1006.8	1001.1	1003.9
37.5°	985.0	980.3	970.8	965.1	968.0
40°	949.0	943.3	933.9	928.2	931.0
42.5°	910.2	905.4	895.0	888.4	895.0
45°	871.3	865.7	855.2	850.5	857.1
47.5°	829.7	823.0	812.6	810.7	818.3
50°	786.1	780.4	770.0	769.1	778.5
52.5°	740.6	734.0	724.5	726.4	736.9
55°	693.3	687.6	679.1	683.8	694.2
57.5°	644.0	639.3	630.8	640.2	652.6
60°	594.8	589.1	581.5	593.8	608.0
62.5°	543.6	537.0	530.4	546.5	562.6
65°	489.7	485.9	481.1	496.3	512.4
67.5°	435.7	432.8	429.0	443.2	452.7
70°	381.7	377.9	375.1	379.8	382.6
72.5°	329.6	323.0	321.1	308.8	303.1
75°	271.8	269.0	260.5	233.0	221.6
77.5°	216.9	213.1	194.2	174.3	175.2
80°	163.9	158.2	138.3	144.9	146.8
82.5°	111.8	107.0	102.3	102.3	100.4
85°	58.7	58.7	59.7	59.7	59.7
87.5°	23.7	25.6	25.6	25.6	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)