

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: P393349

Luminaire Tested: **22EN-LD2-39-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393349  
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 (4000K)  
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: 3672.4 lumens  
Efficiency: N/A  
Efficacy: 122.8 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

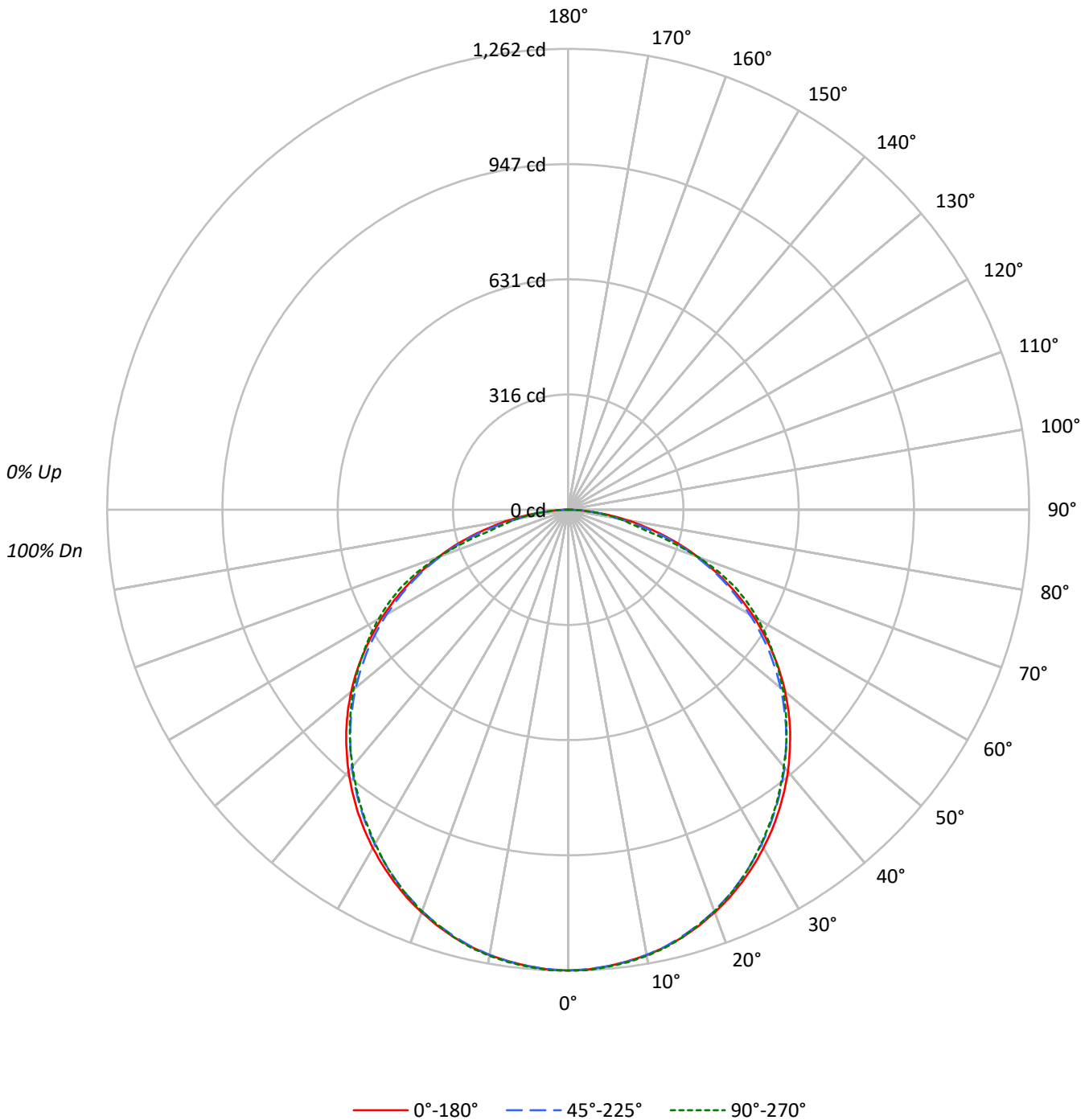
Input Watts (W): 29.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3396	3396	3396
5°	3389	3389	3394
10°	3385	3382	3390
15°	3375	3368	3375
20°	3360	3349	3352
25°	3342	3320	3323
30°	3324	3289	3283
35°	3305	3262	3253
40°	3288	3236	3226
45°	3271	3210	3217
50°	3246	3180	3215
55°	3208	3142	3212
60°	3157	3087	3228
65°	3075	3021	3218
70°	2962	2910	2969
75°	2787	2671	2273
80°	2504	2114	2244
85°	1788	1819	1819



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.2	3.2
10°-20°	341.4	9.3
20°-30°	516.0	14.0
30°-40°	622.6	17.0
40°-50°	653.4	17.8
50°-60°	604.6	16.5
60°-70°	477.2	13.0
70°-80°	267.2	7.3
80°-90°	70.7	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
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0°-30°	976.6	26.6
0°-40°	1599.2	43.5
0°-60°	2857.2	77.8
0°-90°	3672.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3672.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1255	1253	1255	1255	1256	119
15°	1212	1211	1209	1209	1212	342
25°	1126	1122	1118	1115	1119	519
35°	1006	1001	993	987	990	630
45°	859	854	844	839	845	663
55°	684	678	670	674	685	611
65°	483	479	474	490	505	478
75°	268	265	257	230	219	284
85°	58	58	59	59	59	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1262.0	1262.0	1262.0	1262.0	1262.0
2.5°	1260.2	1258.3	1259.2	1260.2	1262.0
5°	1254.6	1252.7	1254.6	1254.6	1256.4
7.5°	1247.1	1246.1	1248.0	1248.0	1249.9
10°	1238.7	1236.8	1237.7	1237.7	1240.5
12.5°	1226.5	1225.6	1225.6	1225.6	1228.4
15°	1211.6	1210.7	1208.8	1208.8	1211.6
17.5°	1193.8	1192.0	1191.0	1189.2	1191.0
20°	1173.3	1171.4	1169.5	1167.7	1170.5
22.5°	1150.9	1149.0	1145.3	1142.5	1146.2
25°	1125.6	1121.9	1118.2	1115.4	1119.1
27.5°	1098.6	1093.9	1089.2	1086.4	1089.2
30°	1069.6	1064.9	1058.4	1053.7	1056.5
32.5°	1038.8	1034.1	1026.6	1022.0	1023.8
35°	1006.1	1001.4	993.0	987.4	990.2
37.5°	971.5	966.8	957.5	951.9	954.7
40°	936.0	930.4	921.1	915.5	918.3
42.5°	897.7	893.0	882.8	876.2	882.8
45°	859.4	853.8	843.5	838.9	845.4
47.5°	818.3	811.8	801.5	799.6	807.1
50°	775.3	769.7	759.5	758.5	767.9
52.5°	730.5	724.0	714.6	716.5	726.8
55°	683.8	678.2	669.8	674.5	684.7
57.5°	635.2	630.5	622.1	631.5	643.6
60°	586.6	581.0	573.6	585.7	599.7
62.5°	536.2	529.7	523.1	539.0	554.9
65°	483.0	479.2	474.5	489.5	505.4
67.5°	429.7	426.9	423.2	437.2	446.5
70°	376.5	372.7	369.9	374.6	377.4
72.5°	325.1	318.5	316.7	304.5	298.9
75°	268.1	265.3	256.9	229.8	218.6
77.5°	213.9	210.2	191.5	171.9	172.8
80°	161.6	156.0	136.4	142.9	144.8
82.5°	110.2	105.6	100.9	100.9	99.0
85°	57.9	57.9	58.9	58.9	58.9
87.5°	23.4	25.2	25.2	25.2	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)