

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: P392954

Luminaire Tested: **12EN-LD2-39-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392954  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-40)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 12EN-LD2-39-UNV-L93050-W2A-1-U (2700K)  
Description: 1X2 ENCOUNTER, 3900 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3410.4 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

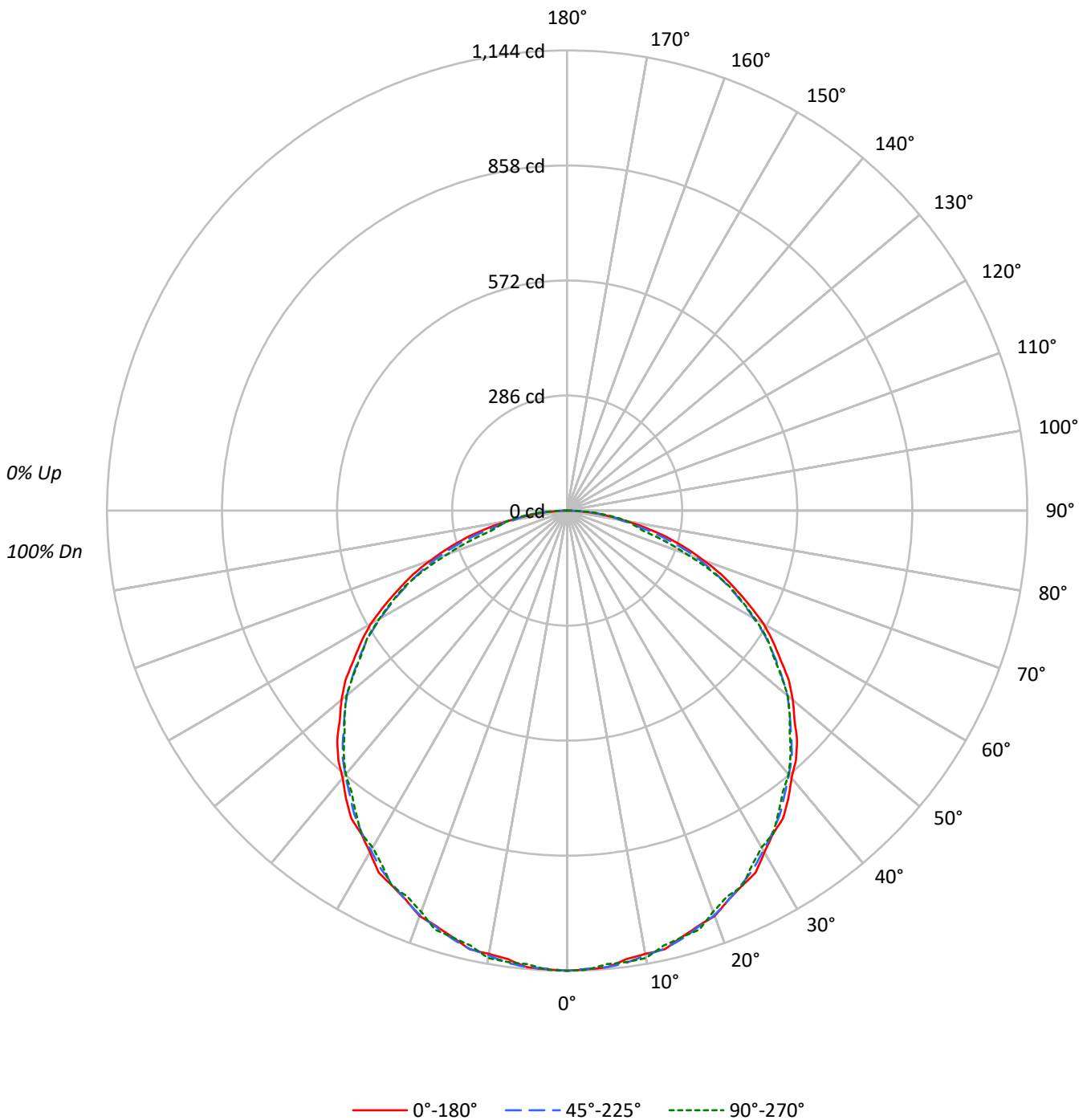
Input Watts (W): 35.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	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	39	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6157	6157	6157
5°	6157	6157	6116
10°	6115	6134	6172
15°	6120	6143	6120
20°	6142	6132	6078
25°	6112	6092	6117
30°	6096	6064	6009
35°	6144	6058	6019
40°	6096	6024	6017
45°	6151	5987	5954
50°	6131	5986	5993
55°	6077	5890	5858
60°	6069	5772	5808
65°	5882	5597	5663
70°	5666	5407	4973
75°	5350	4847	4076
80°	4630	4175	4736
85°	3680	4316	4588



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.2	3.2
10°-20°	310.9	9.1
20°-30°	473.1	13.9
30°-40°	576.6	16.9
40°-50°	611.0	17.9
50°-60°	566.5	16.6
60°-70°	440.6	12.9
70°-80°	247.5	7.3
80°-90°	76.0	2.2
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°	892.1	26.2
0°-40°	1468.7	43.1
0°-60°	2646.3	77.6
0°-90°	3410.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3410.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1140	1135	1140	1137	1132	108
15°	1098	1099	1103	1103	1098	311
25°	1029	1029	1026	1022	1030	475
35°	935	929	922	916	916	582
45°	808	800	787	784	782	621
55°	648	644	628	624	624	581
65°	462	458	440	439	445	458
75°	257	249	233	209	196	270
85°	60	61	70	72	74	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1144.0	1144.0	1144.0	1144.0	1144.0
2.5°	1141.5	1144.0	1139.7	1141.5	1142.3
5°	1139.7	1135.4	1139.7	1137.1	1132.0
7.5°	1125.1	1129.4	1133.7	1134.5	1132.0
10°	1119.0	1127.6	1122.5	1125.1	1129.4
12.5°	1117.3	1113.8	1116.4	1112.1	1107.8
15°	1098.3	1099.1	1102.6	1102.6	1098.3
17.5°	1082.7	1089.7	1085.3	1084.5	1092.2
20°	1072.4	1070.7	1070.7	1067.2	1061.2
22.5°	1047.3	1048.2	1048.2	1046.5	1038.7
25°	1029.2	1029.2	1025.8	1022.3	1030.1
27.5°	1014.5	1006.8	1003.3	999.0	994.7
30°	980.9	979.1	975.7	973.1	967.0
32.5°	952.4	953.2	949.8	944.6	952.4
35°	935.1	929.1	922.1	916.1	916.1
37.5°	903.1	897.1	888.5	883.3	880.7
40°	867.7	865.2	857.4	852.2	856.5
42.5°	841.8	836.7	827.2	819.4	822.0
45°	808.2	799.5	786.6	784.0	782.3
47.5°	765.9	763.3	750.3	746.9	750.3
50°	732.2	727.9	714.9	708.0	715.8
52.5°	695.1	685.6	670.9	669.2	668.3
55°	647.6	644.1	627.7	624.3	624.3
57.5°	607.0	601.8	585.4	579.4	588.9
60°	563.8	554.3	536.2	534.5	539.6
62.5°	512.0	506.0	487.8	487.8	491.3
65°	461.9	457.6	439.5	438.6	444.7
67.5°	414.4	405.8	392.0	386.0	382.5
70°	360.1	354.0	343.6	323.8	316.0
72.5°	308.2	302.2	291.0	259.9	257.3
75°	257.3	248.7	233.1	209.0	196.0
77.5°	202.0	199.5	177.9	166.6	171.8
80°	149.4	150.2	134.7	145.9	152.8
82.5°	101.9	98.4	109.7	114.0	116.6
85°	59.6	61.3	69.9	71.7	74.3
87.5°	24.2	28.5	32.8	33.7	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)