

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: P392960

Luminaire Tested: **12EN-LD2-39-UNV-L93050-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392960  
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 (5700K)  
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: 3484.3 lumens  
Efficiency: N/A  
Efficacy: 100.1 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

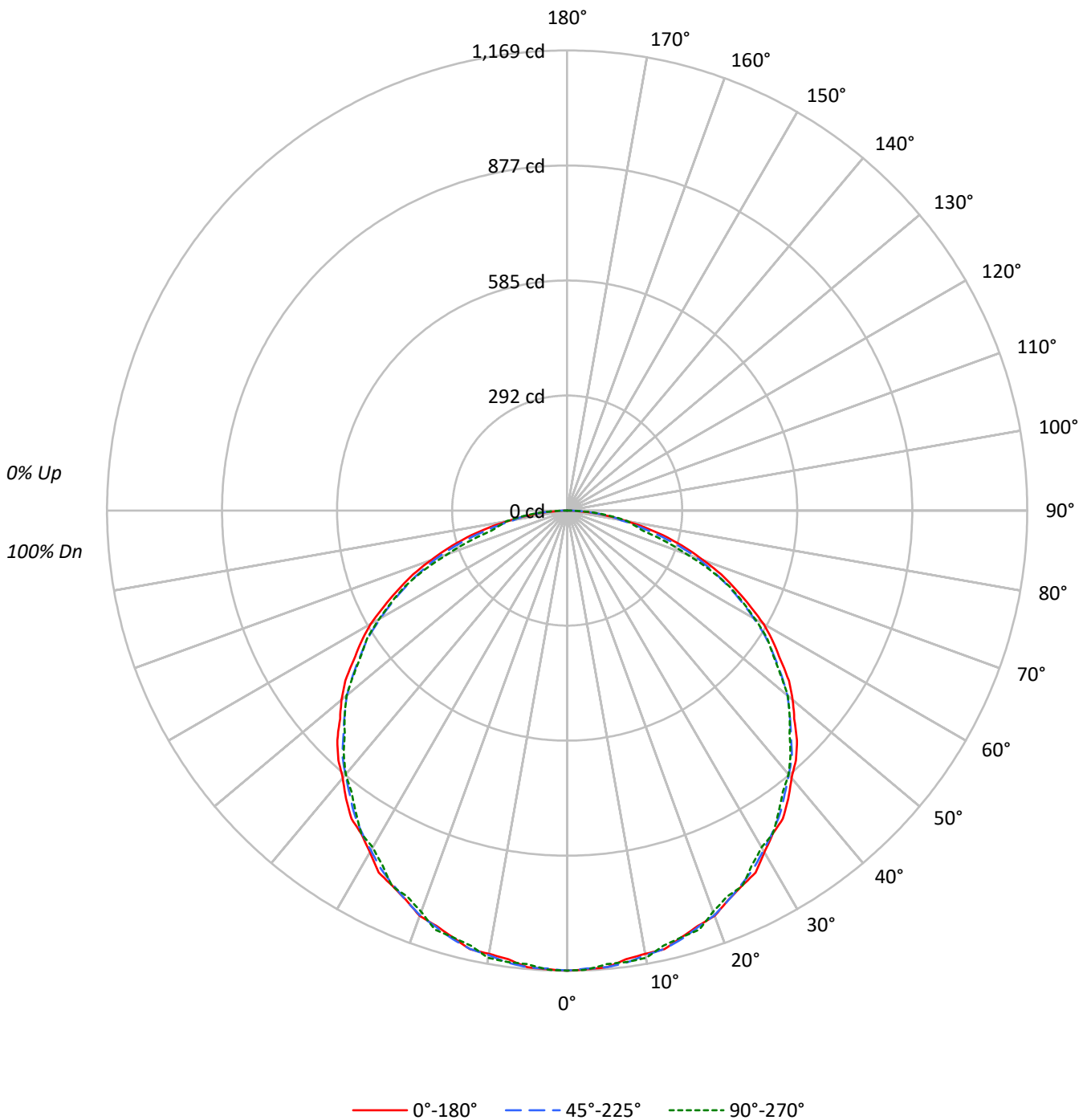
Input Watts (W): 34.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6290	6290	6290
5°	6291	6291	6248
10°	6248	6267	6306
15°	6252	6277	6252
20°	6275	6265	6210
25°	6244	6223	6250
30°	6228	6195	6140
35°	6277	6190	6150
40°	6229	6154	6148
45°	6285	6116	6083
50°	6264	6116	6123
55°	6208	6017	5985
60°	6200	5896	5934
65°	6011	5718	5785
70°	5789	5525	5081
75°	5467	4953	4163
80°	4730	4265	4838
85°	3761	4415	4687



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.5	3.2
10°-20°	317.6	9.1
20°-30°	483.3	13.9
30°-40°	589.1	16.9
40°-50°	624.3	17.9
50°-60°	578.8	16.6
60°-70°	450.1	12.9
70°-80°	252.9	7.3
80°-90°	77.7	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°	911.4	26.2
0°-40°	1500.6	43.1
0°-60°	2703.6	77.6
0°-90°	3484.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3484.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1164	1160	1164	1162	1156	110
15°	1122	1123	1126	1126	1122	317
25°	1052	1052	1048	1044	1052	486
35°	955	949	942	936	936	595
45°	826	817	804	801	799	635
55°	662	658	641	638	638	594
65°	472	468	449	448	454	468
75°	263	254	238	214	200	275
85°	61	63	72	73	76	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1168.8	1168.8	1168.8	1168.8	1168.8
2.5°	1166.2	1168.8	1164.4	1166.2	1167.1
5°	1164.4	1160.0	1164.4	1161.8	1156.5
7.5°	1149.4	1153.9	1158.3	1159.1	1156.5
10°	1143.3	1152.1	1146.8	1149.4	1153.9
12.5°	1141.5	1138.0	1140.6	1136.2	1131.8
15°	1122.1	1123.0	1126.5	1126.5	1122.1
17.5°	1106.2	1113.3	1108.9	1108.0	1115.9
20°	1095.6	1093.9	1093.9	1090.3	1084.2
22.5°	1070.0	1070.9	1070.9	1069.2	1061.2
25°	1051.5	1051.5	1048.0	1044.5	1052.4
27.5°	1036.5	1028.6	1025.1	1020.6	1016.2
30°	1002.1	1000.4	996.8	994.2	988.0
32.5°	973.0	973.9	970.4	965.1	973.0
35°	955.4	949.2	942.1	936.0	936.0
37.5°	922.7	916.6	907.7	902.4	899.8
40°	886.6	883.9	876.0	870.7	875.1
42.5°	860.1	854.8	845.1	837.2	839.8
45°	825.7	816.9	803.6	801.0	799.2
47.5°	782.5	779.8	766.6	763.1	766.6
50°	748.1	743.7	730.4	723.4	731.3
52.5°	710.1	700.4	685.4	683.7	682.8
55°	661.6	658.1	641.3	637.8	637.8
57.5°	620.2	614.9	598.1	591.9	601.6
60°	576.0	566.3	547.8	546.1	551.3
62.5°	523.1	516.9	498.4	498.4	501.9
65°	472.0	467.5	449.0	448.1	454.3
67.5°	423.4	414.6	400.5	394.3	390.8
70°	367.9	361.7	351.1	330.8	322.9
72.5°	314.9	308.8	297.3	265.5	262.9
75°	262.9	254.1	238.2	213.5	200.2
77.5°	206.4	203.8	181.7	170.3	175.5
80°	152.6	153.5	137.6	149.1	156.1
82.5°	104.1	100.6	112.0	116.4	119.1
85°	60.9	62.6	71.5	73.2	75.9
87.5°	24.7	29.1	33.5	34.4	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)