

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: P392955

Luminaire Tested: **12EN-LD2-39-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392955  
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 (3000K)  
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: 3245.7 lumens  
Efficiency: N/A  
Efficacy: 91.7 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

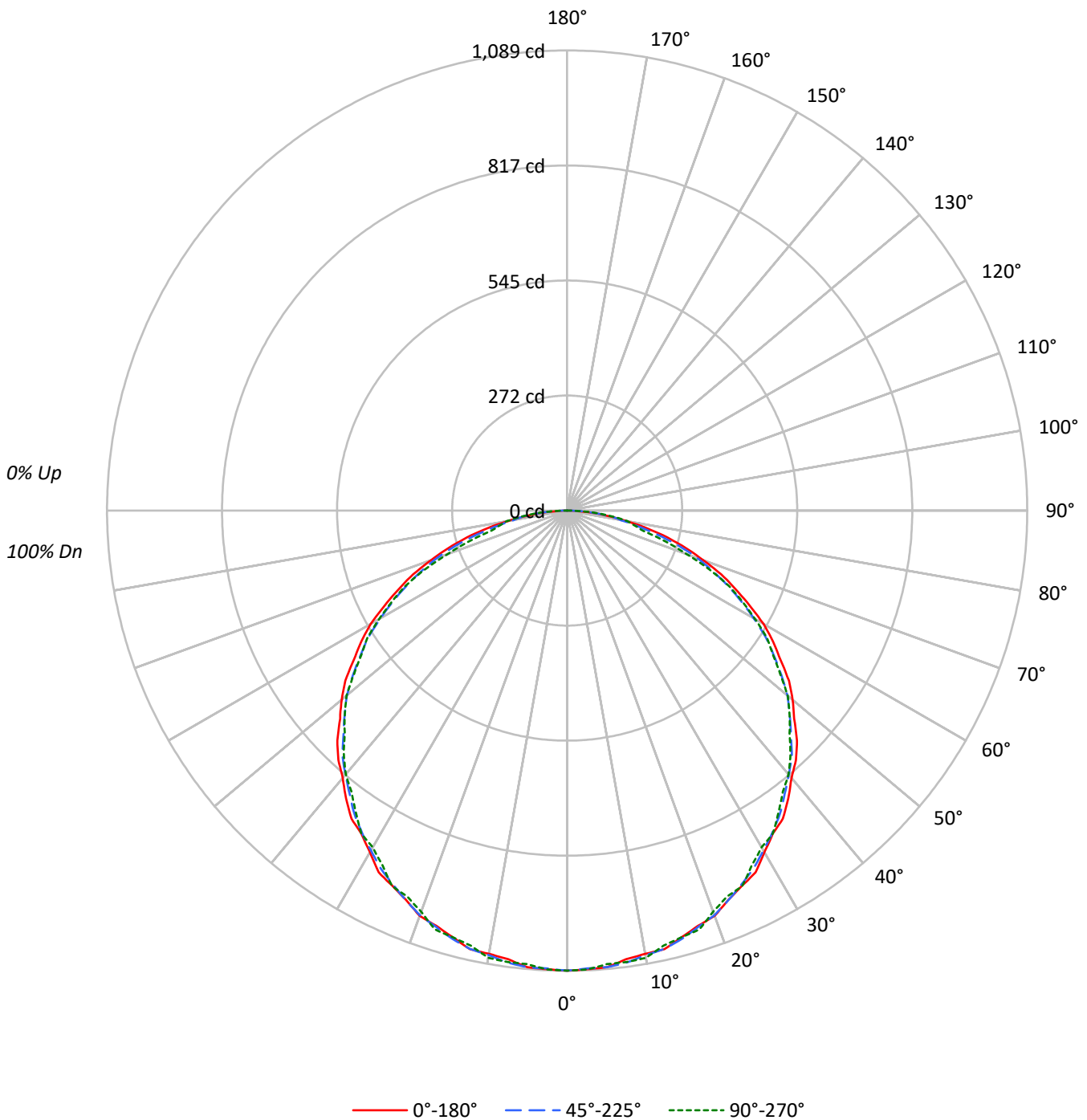
Input Watts (W): 35.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5860	5860	5860
5°	5860	5860	5820
10°	5820	5838	5874
15°	5824	5847	5824
20°	5845	5836	5784
25°	5817	5797	5821
30°	5801	5771	5720
35°	5847	5766	5729
40°	5802	5733	5727
45°	5855	5698	5667
50°	5834	5697	5704
55°	5783	5605	5575
60°	5776	5493	5528
65°	5598	5327	5389
70°	5393	5147	4733
75°	5093	4614	3878
80°	4407	3973	4506
85°	3501	4113	4366



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.9	3.2
10°-20°	295.9	9.1
20°-30°	450.2	13.9
30°-40°	548.8	16.9
40°-50°	581.5	17.9
50°-60°	539.2	16.6
60°-70°	419.3	12.9
70°-80°	235.6	7.3
80°-90°	72.4	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°	849.0	26.2
0°-40°	1397.8	43.1
0°-60°	2518.5	77.6
0°-90°	3245.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3245.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1089	1089	1089	1089	1089	
5°	1085	1081	1085	1082	1077	103
15°	1045	1046	1049	1049	1045	296
25°	980	980	976	973	980	452
35°	890	884	878	872	872	554
45°	769	761	749	746	744	591
55°	616	613	597	594	594	553
65°	440	436	418	417	423	436
75°	245	237	222	199	186	257
85°	57	58	67	68	71	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1088.8	1088.8	1088.8	1088.8	1088.8
2.5°	1086.3	1088.8	1084.7	1086.3	1087.2
5°	1084.7	1080.6	1084.7	1082.2	1077.3
7.5°	1070.7	1074.8	1078.9	1079.8	1077.3
10°	1065.0	1073.2	1068.3	1070.7	1074.8
12.5°	1063.3	1060.0	1062.5	1058.4	1054.3
15°	1045.3	1046.1	1049.4	1049.4	1045.3
17.5°	1030.5	1037.0	1032.9	1032.1	1039.5
20°	1020.6	1019.0	1019.0	1015.7	1009.9
22.5°	996.8	997.6	997.6	996.0	988.6
25°	979.5	979.5	976.2	972.9	980.3
27.5°	965.5	958.2	954.9	950.8	946.6
30°	933.5	931.9	928.6	926.1	920.4
32.5°	906.4	907.2	903.9	899.0	906.4
35°	889.9	884.2	877.6	871.9	871.9
37.5°	859.5	853.8	845.6	840.6	838.2
40°	825.9	823.4	816.0	811.1	815.2
42.5°	801.2	796.3	787.2	779.8	782.3
45°	769.2	760.9	748.6	746.1	744.5
47.5°	728.9	726.4	714.1	710.8	714.1
50°	696.8	692.7	680.4	673.8	681.2
52.5°	661.5	652.5	638.5	636.9	636.0
55°	616.3	613.0	597.4	594.1	594.1
57.5°	577.7	572.8	557.1	551.4	560.4
60°	536.6	527.6	510.3	508.7	513.6
62.5°	487.3	481.5	464.3	464.3	467.6
65°	439.6	435.5	418.3	417.4	423.2
67.5°	394.4	386.2	373.1	367.3	364.0
70°	342.7	336.9	327.1	308.2	300.8
72.5°	293.4	287.6	276.9	247.3	244.9
75°	244.9	236.7	221.9	198.9	186.5
77.5°	192.3	189.8	169.3	158.6	163.5
80°	142.2	143.0	128.2	138.9	145.4
82.5°	97.0	93.7	104.4	108.5	110.9
85°	56.7	58.3	66.6	68.2	70.7
87.5°	23.0	27.1	31.2	32.0	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)