

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: P392923

Luminaire Tested: **12EN-LD2-35-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392923  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-39)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 12EN-LD2-35-UNV-L93050-W2A-1-U (3000K)  
Description: 1X2 ENCOUNTER, 3500 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2870.6 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

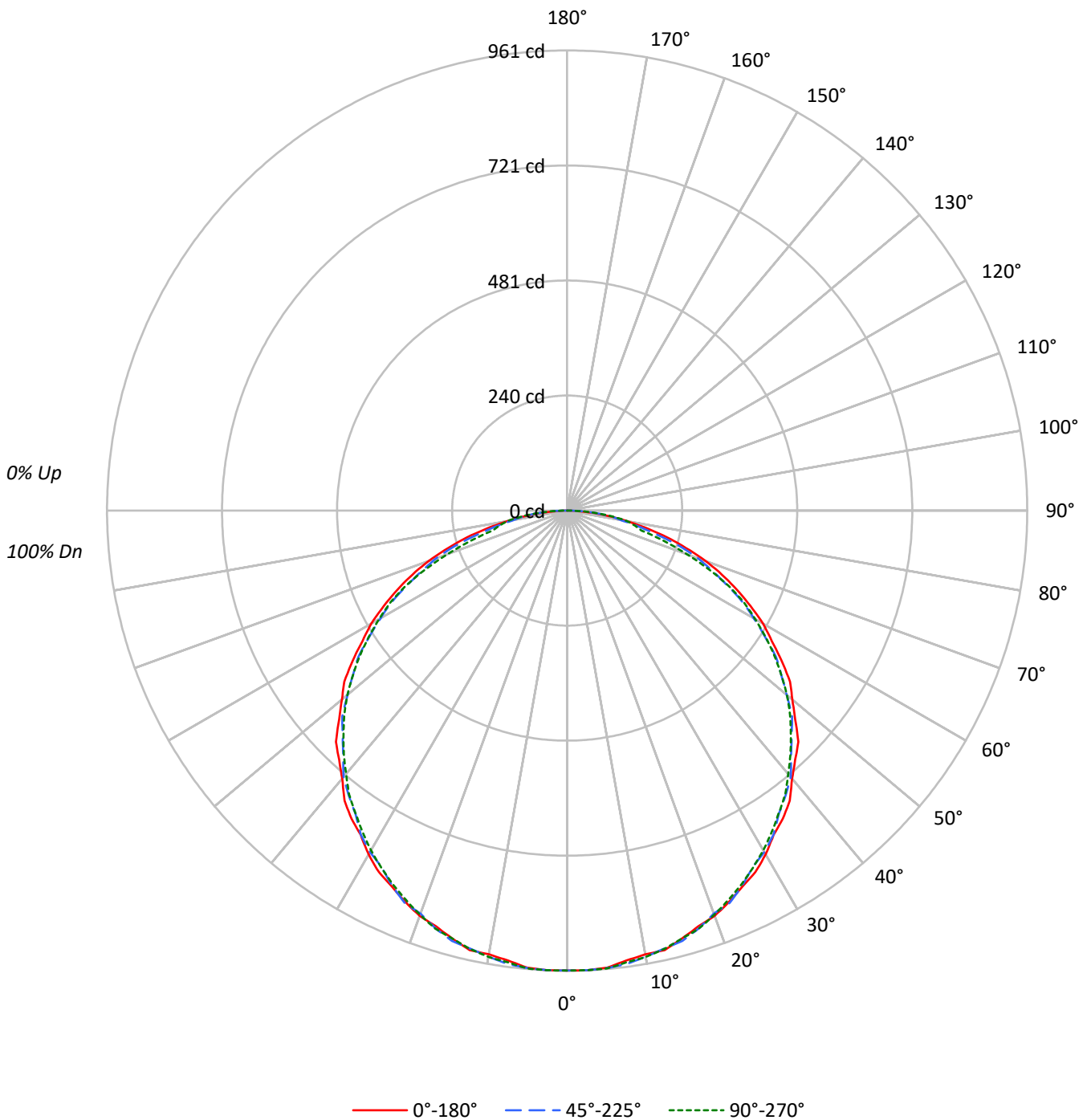
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	40	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°	5170	5170	5170
5°	5177	5181	5185
10°	5142	5169	5173
15°	5156	5183	5156
20°	5158	5130	5144
25°	5143	5134	5114
30°	5152	5117	5092
35°	5162	5070	5064
40°	5132	5103	5046
45°	5198	5047	5029
50°	5139	5009	5016
55°	5128	4997	4958
60°	5086	4847	4883
65°	4981	4688	4740
70°	4836	4565	4189
75°	4494	4051	3350
80°	3921	3490	3949
85°	3143	3754	3804



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.0	3.2
10°-20°	261.6	9.1
20°-30°	398.3	13.9
30°-40°	485.8	16.9
40°-50°	514.2	17.9
50°-60°	476.3	16.6
60°-70°	371.0	12.9
70°-80°	208.1	7.2
80°-90°	64.2	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°	751.0	26.2
0°-40°	1236.8	43.1
0°-60°	2227.3	77.6
0°-90°	2870.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2870.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	958	959	959	961	960	91
15°	925	927	930	927	925	261
25°	866	864	864	859	861	400
35°	786	779	772	770	771	491
45°	683	675	663	662	661	523
55°	546	542	532	525	528	488
65°	391	384	368	371	372	387
75°	216	210	195	174	161	227
85°	51	53	61	62	62	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	960.6	960.6	960.6	960.6	960.6
2.5°	960.6	959.0	960.6	959.8	960.6
5°	958.2	959.0	959.0	960.6	959.8
7.5°	947.5	951.6	954.9	954.0	951.6
10°	940.9	945.0	945.8	944.2	946.6
12.5°	940.1	940.9	936.8	939.3	937.6
15°	925.3	926.9	930.2	926.9	925.3
17.5°	910.5	913.8	914.6	912.1	915.4
20°	900.6	903.1	895.7	899.0	898.2
22.5°	884.2	885.0	886.7	880.9	880.1
25°	866.1	864.5	864.5	858.7	861.2
27.5°	851.3	845.6	839.0	842.3	840.6
30°	829.1	828.3	823.4	820.1	819.3
32.5°	802.8	803.7	802.0	794.6	795.4
35°	785.6	779.0	771.6	770.0	770.8
37.5°	763.4	757.6	749.4	747.0	747.8
40°	730.5	729.7	726.4	716.6	718.2
42.5°	705.1	700.1	691.9	687.8	690.3
45°	682.9	674.7	663.1	661.5	660.7
47.5°	645.9	644.2	636.9	627.8	631.1
50°	613.8	610.6	598.2	593.3	599.1
52.5°	586.7	578.5	563.7	562.9	563.7
55°	546.5	542.4	532.5	525.1	528.4
57.5°	507.0	503.7	489.8	487.3	491.4
60°	472.5	466.7	450.3	449.5	453.6
62.5°	431.4	427.3	412.5	412.5	416.6
65°	391.1	383.8	368.1	370.6	372.2
67.5°	350.1	341.0	327.1	324.6	319.7
70°	307.3	298.3	290.1	274.5	266.2
72.5°	260.5	253.9	244.9	221.0	212.8
75°	216.1	209.5	194.8	174.2	161.1
77.5°	169.3	166.8	149.6	141.3	144.6
80°	126.5	125.7	112.6	123.3	127.4
82.5°	86.3	83.0	91.2	96.1	96.1
85°	50.9	52.6	60.8	61.6	61.6
87.5°	20.5	23.8	27.9	29.6	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)