

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: P392910

Luminaire Tested: **12EN-LD2-35-UNV-L83050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392910  
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-L83050-W2A-1-U (4500K)  
Description: 1X2 ENCOUNTER, 3500 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3555.5 lumens  
Efficiency: N/A  
Efficacy: 117.0 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

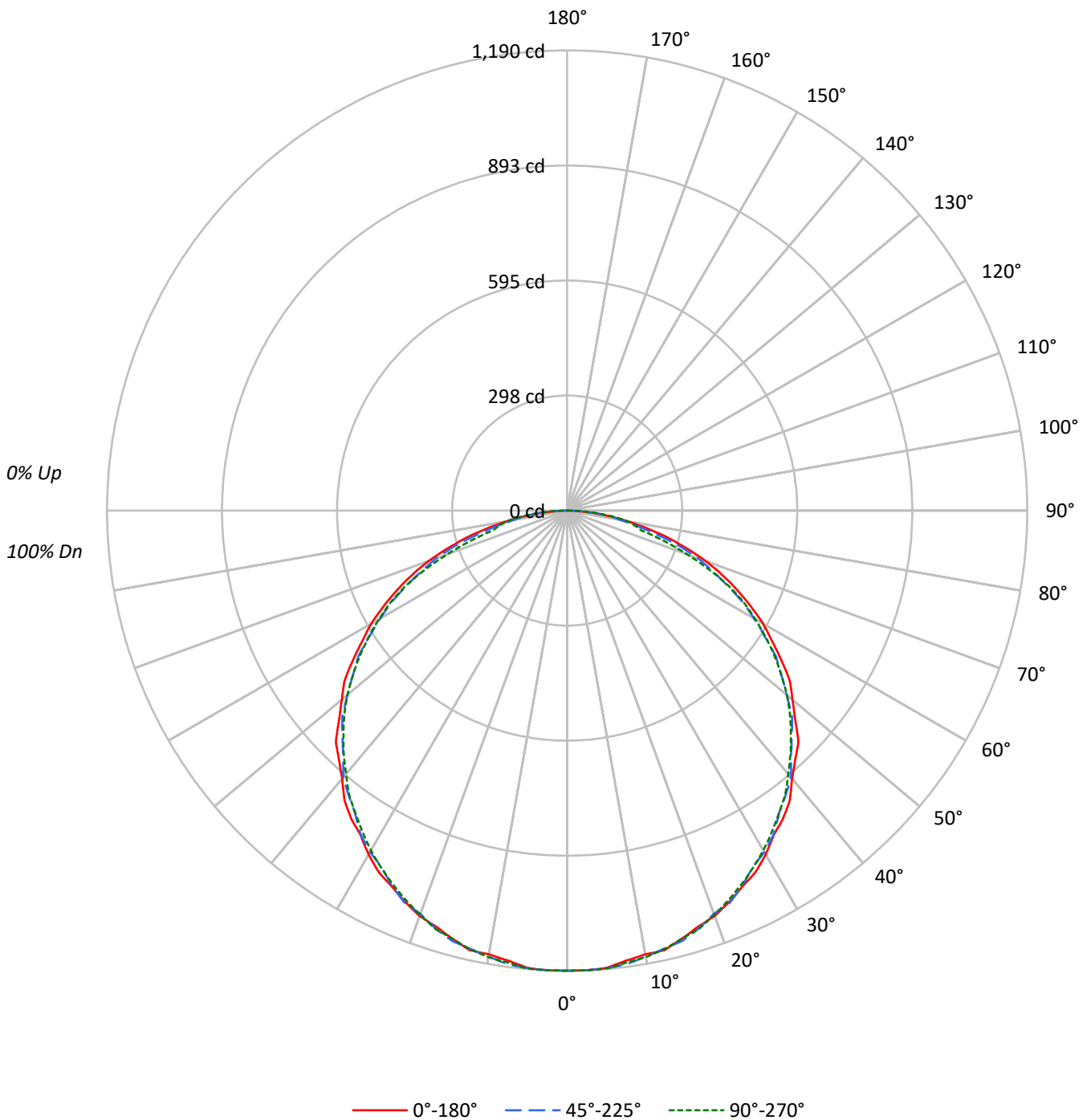
Input Watts (W): 30.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	6403	6403	6403
5°	6412	6417	6423
10°	6369	6402	6408
15°	6386	6420	6386
20°	6389	6354	6372
25°	6371	6359	6334
30°	6382	6338	6307
35°	6393	6279	6273
40°	6357	6322	6250
45°	6438	6252	6228
50°	6366	6204	6213
55°	6351	6189	6141
60°	6299	6004	6047
65°	6170	5807	5872
70°	5991	5654	5190
75°	5567	5016	4148
80°	4857	4320	4891
85°	3896	4650	4712



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	3.2
10°-20°	324.1	9.1
20°-30°	493.4	13.9
30°-40°	601.8	16.9
40°-50°	636.9	17.9
50°-60°	590.0	16.6
60°-70°	459.5	12.9
70°-80°	257.8	7.2
80°-90°	79.5	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°	930.2	26.2
0°-40°	1532.0	43.1
0°-60°	2758.8	77.6
0°-90°	3555.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3555.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1187	1188	1188	1190	1189	112
15°	1146	1148	1152	1148	1146	324
25°	1073	1071	1071	1064	1067	496
35°	973	965	956	954	955	608
45°	846	836	821	819	818	647
55°	677	672	660	650	654	605
65°	484	475	456	459	461	479
75°	268	260	241	216	200	282
85°	63	65	75	76	76	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1189.8	1187.8	1189.8	1188.8	1189.8
5°	1186.8	1187.8	1187.8	1189.8	1188.8
7.5°	1173.6	1178.6	1182.7	1181.7	1178.6
10°	1165.4	1170.5	1171.5	1169.5	1172.5
12.5°	1164.4	1165.4	1160.3	1163.4	1161.3
15°	1146.1	1148.1	1152.2	1148.1	1146.1
17.5°	1127.8	1131.8	1132.8	1129.8	1133.9
20°	1115.5	1118.6	1109.4	1113.5	1112.5
22.5°	1095.2	1096.2	1098.2	1091.1	1090.1
25°	1072.8	1070.8	1070.8	1063.6	1066.7
27.5°	1054.5	1047.3	1039.2	1043.3	1041.2
30°	1027.0	1026.0	1019.9	1015.8	1014.8
32.5°	994.4	995.4	993.4	984.2	985.3
35°	973.0	964.9	955.7	953.7	954.7
37.5°	945.6	938.4	928.3	925.2	926.2
40°	904.8	903.8	899.8	887.5	889.6
42.5°	873.3	867.2	857.0	851.9	855.0
45°	845.8	835.6	821.4	819.3	818.3
47.5°	800.0	798.0	788.8	777.6	781.7
50°	760.3	756.2	741.0	734.9	742.0
52.5°	726.7	716.5	698.2	697.2	698.2
55°	676.9	671.8	659.6	650.4	654.5
57.5°	628.0	623.9	606.6	603.6	608.7
60°	585.2	578.1	557.8	556.8	561.8
62.5°	534.4	529.3	510.9	510.9	516.0
65°	484.5	475.3	456.0	459.0	461.1
67.5°	433.6	422.4	405.1	402.0	395.9
70°	380.7	369.5	359.3	340.0	329.8
72.5°	322.7	314.5	303.3	273.8	263.6
75°	267.7	259.5	241.2	215.8	199.5
77.5°	209.7	206.6	185.2	175.1	179.1
80°	156.7	155.7	139.4	152.7	157.8
82.5°	106.9	102.8	113.0	119.1	119.1
85°	63.1	65.1	75.3	76.3	76.3
87.5°	25.4	29.5	34.6	36.6	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)