

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: P392903

Luminaire Tested: **12EN-LD2-35-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392903  
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-L82765-W2A-1-U (5000K)  
Description: 1X2 ENCOUNTER, 3500 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3354.5 lumens  
Efficiency: N/A  
Efficacy: 110.7 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

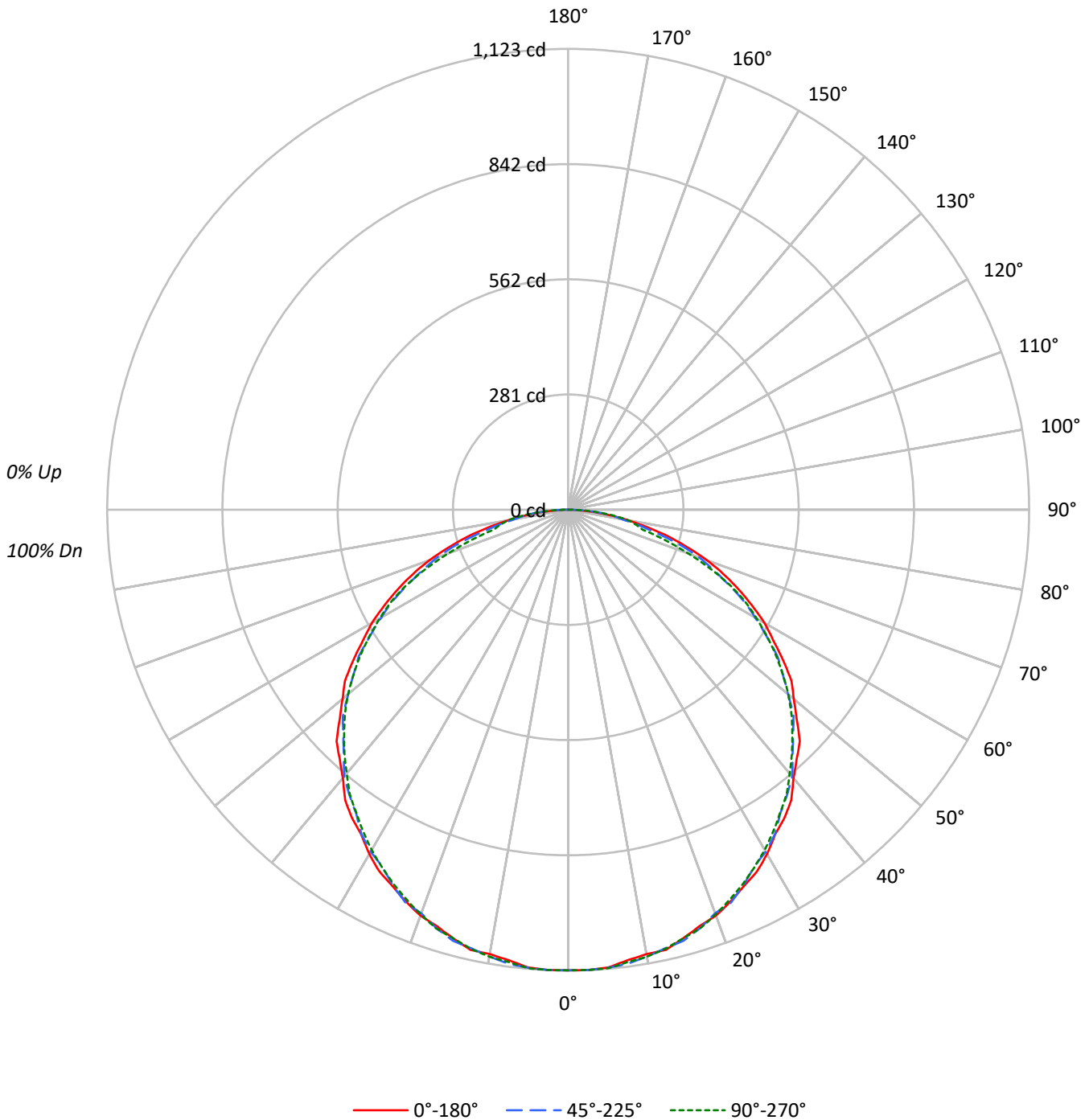
Input Watts (W): 30.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	6042	6042	6042
5°	6049	6054	6059
10°	6009	6040	6045
15°	6025	6057	6025
20°	6028	5995	6011
25°	6010	5999	5976
30°	6021	5980	5950
35°	6031	5924	5918
40°	5998	5964	5897
45°	6074	5898	5877
50°	6006	5853	5861
55°	5992	5839	5794
60°	5944	5664	5706
65°	5821	5479	5540
70°	5651	5334	4895
75°	5253	4733	3913
80°	4584	4079	4612
85°	3674	4390	4446



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.4	3.2
10°-20°	305.7	9.1
20°-30°	465.5	13.9
30°-40°	567.7	16.9
40°-50°	600.8	17.9
50°-60°	556.6	16.6
60°-70°	433.5	12.9
70°-80°	243.2	7.2
80°-90°	75.0	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°	877.6	26.2
0°-40°	1445.3	43.1
0°-60°	2602.8	77.6
0°-90°	3354.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3354.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1123	1123	1123	1123	1123	
5°	1120	1121	1121	1123	1122	106
15°	1081	1083	1087	1083	1081	305
25°	1012	1010	1010	1004	1006	468
35°	918	910	902	900	901	573
45°	798	788	775	773	772	611
55°	639	634	622	614	618	571
65°	457	448	430	433	435	452
75°	253	245	228	204	188	266
85°	60	62	71	72	72	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1122.6	1122.6	1122.6	1122.6	1122.6
2.5°	1122.6	1120.6	1122.6	1121.6	1122.6
5°	1119.7	1120.6	1120.6	1122.6	1121.6
7.5°	1107.2	1112.0	1115.8	1114.9	1112.0
10°	1099.5	1104.3	1105.3	1103.4	1106.2
12.5°	1098.6	1099.5	1094.7	1097.6	1095.7
15°	1081.3	1083.2	1087.0	1083.2	1081.3
17.5°	1064.0	1067.8	1068.8	1065.9	1069.7
20°	1052.5	1055.3	1046.7	1050.5	1049.6
22.5°	1033.3	1034.2	1036.1	1029.4	1028.5
25°	1012.1	1010.2	1010.2	1003.5	1006.4
27.5°	994.8	988.1	980.4	984.3	982.4
30°	968.9	968.0	962.2	958.4	957.4
32.5°	938.2	939.1	937.2	928.6	929.5
35°	918.0	910.3	901.7	899.8	900.7
37.5°	892.1	885.4	875.8	872.9	873.8
40°	853.7	852.7	848.9	837.4	839.3
42.5°	823.9	818.2	808.5	803.7	806.6
45°	798.0	788.4	774.9	773.0	772.1
47.5°	754.8	752.9	744.2	733.6	737.5
50°	717.3	713.5	699.1	693.3	700.0
52.5°	685.6	676.0	658.7	657.8	658.7
55°	638.6	633.8	622.3	613.6	617.5
57.5°	592.5	588.6	572.3	569.4	574.2
60°	552.2	545.4	526.2	525.3	530.1
62.5°	504.1	499.3	482.1	482.1	486.9
65°	457.1	448.4	430.2	433.1	435.0
67.5°	409.1	398.5	382.2	379.3	373.5
70°	359.1	348.6	339.0	320.7	311.1
72.5°	304.4	296.7	286.2	258.3	248.7
75°	252.6	244.9	227.6	203.6	188.2
77.5°	197.8	194.9	174.8	165.2	169.0
80°	147.9	146.9	131.6	144.0	148.8
82.5°	100.8	97.0	106.6	112.4	112.4
85°	59.5	61.5	71.1	72.0	72.0
87.5°	24.0	27.8	32.6	34.6	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)