

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: P392906

Luminaire Tested: **12EN-LD2-35-UNV-L83050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392906  
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 (2700K)  
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: 3370.4 lumens  
Efficiency: N/A  
Efficacy: 111.6 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

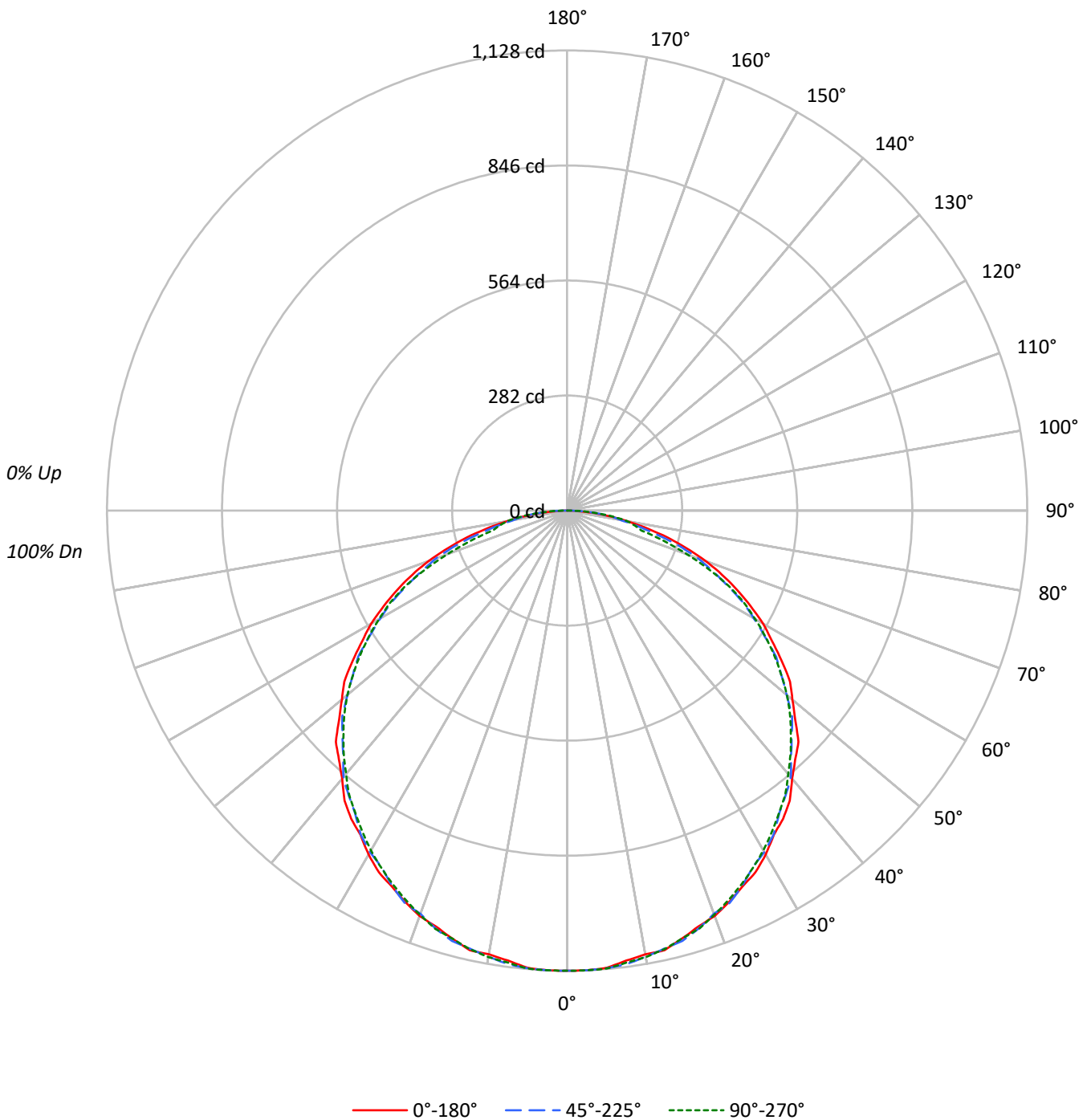
Input Watts (W): 30.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6070	6070	6070
5°	6078	6083	6088
10°	6037	6069	6074
15°	6053	6086	6053
20°	6056	6023	6040
25°	6039	6027	6004
30°	6050	6008	5978
35°	6060	5953	5946
40°	6026	5992	5925
45°	6103	5926	5904
50°	6034	5881	5889
55°	6020	5866	5821
60°	5972	5691	5733
65°	5849	5504	5566
70°	5677	5360	4919
75°	5276	4756	3932
80°	4606	4097	4634
85°	3693	4409	4471



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.9	3.2
10°-20°	307.2	9.1
20°-30°	467.7	13.9
30°-40°	570.4	16.9
40°-50°	603.7	17.9
50°-60°	559.2	16.6
60°-70°	435.6	12.9
70°-80°	244.3	7.2
80°-90°	75.3	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°	881.8	26.2
0°-40°	1452.2	43.1
0°-60°	2615.1	77.6
0°-90°	3370.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3370.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1125	1126	1126	1128	1127	107
15°	1086	1088	1092	1088	1086	307
25°	1017	1015	1015	1008	1011	470
35°	922	915	906	904	905	576
45°	802	792	779	777	776	614
55°	642	637	625	616	620	573
65°	459	451	432	435	437	454
75°	254	246	229	204	189	267
85°	60	62	71	72	72	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1127.9	1127.9	1127.9	1127.9	1127.9
2.5°	1127.9	1125.9	1127.9	1126.9	1127.9
5°	1125.0	1125.9	1125.9	1127.9	1126.9
7.5°	1112.4	1117.3	1121.1	1120.2	1117.3
10°	1104.7	1109.5	1110.5	1108.6	1111.5
12.5°	1103.8	1104.7	1099.9	1102.8	1100.9
15°	1086.4	1088.3	1092.2	1088.3	1086.4
17.5°	1069.0	1072.9	1073.8	1071.0	1074.8
20°	1057.4	1060.3	1051.7	1055.5	1054.5
22.5°	1038.1	1039.1	1041.0	1034.3	1033.3
25°	1016.9	1015.0	1015.0	1008.2	1011.1
27.5°	999.6	992.8	985.1	988.9	987.0
30°	973.5	972.5	966.8	962.9	961.9
32.5°	942.6	943.6	941.7	933.0	933.9
35°	922.4	914.6	906.0	904.0	905.0
37.5°	896.3	889.6	879.9	877.0	878.0
40°	857.7	856.8	852.9	841.3	843.3
42.5°	827.8	822.0	812.4	807.6	810.4
45°	801.8	792.1	778.6	776.7	775.7
47.5°	758.3	756.4	747.7	737.1	741.0
50°	720.7	716.9	702.4	696.6	703.4
52.5°	688.9	679.2	661.9	660.9	661.9
55°	641.6	636.8	625.2	616.5	620.4
57.5°	595.3	591.4	575.0	572.1	577.0
60°	554.8	548.0	528.7	527.8	532.6
62.5°	506.5	501.7	484.3	484.3	489.2
65°	459.3	450.6	432.2	435.1	437.1
67.5°	411.0	400.4	384.0	381.1	375.3
70°	360.8	350.2	340.6	322.3	312.6
72.5°	305.8	298.1	287.5	259.5	249.9
75°	253.7	246.0	228.7	204.5	189.1
77.5°	198.8	195.9	175.6	165.9	169.8
80°	148.6	147.6	132.2	144.7	149.5
82.5°	101.3	97.4	107.1	112.9	112.9
85°	59.8	61.7	71.4	72.4	72.4
87.5°	24.1	28.0	32.8	34.7	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)